

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

## Oil Conservation Division

Incident ID	
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 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 type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input 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: _____	Title: _____
Signature: <u>Katherine Purvis</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____



July 7, 2025

NMOCD District 2  
Mike Bratcher  
Artesia, NM 88210

**Re: Site Assessment, Remediation, and Closure Request**  
**Folk State 11 Battery**  
**GPS: Latitude 32.83371 Longitude -104.09593**  
**UL "J", Sec. 17, T17S, R29E**  
**Eddy County, NM**  
**NMOCD Ref. No. nAPP2232679528**

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment and conduct remediation activities for the release site known as the Folk State 11 Battery (Folk). Details of the release are summarized below:

Release Details			
<b>Type of Release:</b>	Crude Oil	<b>Volume of Release:</b>	27 bbls
		<b>Volume Recovered:</b>	25 bbls
<b>Source of Release:</b>	Fitting Failure	<b>Date of Release:</b>	11/22/2022
<b>Was Immediate Notice Given?</b>	Yes	<b>If, Yes, to Whom?</b>	Mike Bratcher, BLM
<b>Was a Watercourse Reached?</b>	No	<b>If Yes, Volume Impacting Watercourse:</b>	N/A
<b>Surface Owner:</b>	Private	<b>Mineral Owner:</b>	Federal

Topo and Wetlands Maps are provided in Figures #2 and #4.

## REGULATORY FRAMEWORK & SITE CHARACTERIZATION

Surface impacts from unauthorized releases of fluids or gases are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance, and enforcement procedures. Table I of 19.15.29.12 NMAC determines the closure criteria for soils impacted by a release based on depth to groundwater and the following characteristics:

- Depth to Groundwater in the affected area 75-100'
- Method to determine DTW NM OSE
- Did the release impact groundwater or surface water No

Depth to groundwater information is provided in Appendix A.

What are the minimum distances between the closest lateral extents of the release and the following surface areas:

- A Continuously flowing watercourse or any other significant watercourse- > 5 Mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- >5 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1-5 mi
- Any other fresh water well or spring- 1-5 mi
- Incorporated municipal boundaries or a defined municipal fresh water well field- 1-5 mi
- A wetland- 1-5 mi
- A subsurface mine- >5 mi
- An (non-karst) unstable area- >5 mi
- Categorize the risk of this well/site being in a karst area geology- Medium
- A 100-year floodplain- 1-5 mi
- Did the release impact areas not on an exploration, development, production, or storage site- No

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Eolian and piedmont deposits (Holocene to middle Pleistocene)— Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits (QEP). The soil in this area is composed of Kimbrough-Stegall loams, with slopes ranging from 0 to 3 percent, according to the United States Department of Agriculture's Natural Resources Conservation Service. The drainage courses in this area are excessively drained.

The Soil Survey and FEMA Flood Map are provided in Appendix B. A Karst Map is provided in Figure #3.



### INITIAL SITE ASSESSMENT

Another company had previously assessed and remediated this spill, and they had requested a deferral around one of the tanks. The NMOCD denied the request for a lack of delineation. They also noted staining in the open excavation pictures. After the denial, Spur passed this project onto us in hopes of obtaining closure.

We looked at the data and the report that was submitted. After reviewing the data and discussing the matter with Spur, it was decided to restart this remediation due to the staining that was left and the lack of delineation.

### REMEDIATION ACTIVITIES

On April 25, 2025, Paragon mobilized personnel and equipment and began conducting remedial activities. We excavated the entire spill area to a depth of 4 feet BGS, with the exception of the area around tank 4, which was excavated to 9 feet BGS. The total square footage of the spill area was approximately 1700, and the east side area around tank 4 was estimated to be 63 square feet. We excavated approximately 264 C/Y of material.

Prior to obtaining confirmation samples, a notification was submitted to the NMOCD. The bottom samples represented no more than 200 sq/ft, and the sidewall samples were obtained every 50 feet. The results of this sampling event are in the following data table.

## 5-15-24 Confirmation Laboratory Results

NMDCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 78')						
Sample Date 5/15/24	Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria ≤10,000 mg/kg
Sample ID	BTEX	Benzene	GRD	DRO	EXT	CHLORIDES
C-1 4'	<0.300	<0.050	<10.0	<10.0	<10.0	288
C-2 4'	<0.300	<0.050	<10.0	<10.0	<10.0	240
C-3 4'	<0.300	<0.050	<10.0	<10.0	<10.0	256
C-4 9'	<0.300	<0.050	<10.0	<10.0	<10.0	208
C-5 4'	<0.300	<0.050	<10.0	<10.0	<10.0	240
C-6 4'	<0.300	<0.050	<10.0	<10.0	<10.0	208
C-7 4'	<0.300	<0.050	<10.0	<10.0	<10.0	208
C-8 4'	<0.300	<0.050	<10.0	<10.0	<10.0	208
C-9 4'	<0.300	<0.050	<10.0	<10.0	<10.0	288
ESW-1 4'	<0.300	<0.050	<10.0	<10.0	<10.0	256
ESW-2 4'	<0.300	<0.050	<10.0	<10.0	<10.0	208
ESW-3 4'	<0.300	<0.050	<10.0	30.8	<10.0	256
ESW-4 4'	<0.300	<0.050	<10.0	<10.0	<10.0	272
ESW-5 4'	<0.300	<0.050	<10.0	<10.0	<10.0	256
ESW-6 9'	<0.300	<0.050	<10.0	1260	276	32
NSW-1 4'	<0.300	<0.050	<10.0	<10.0	<10.0	240
NSW-2 9'	<0.300	<0.050	<10.0	181	39	32
SSW-1 4'	<0.300	<0.050	<10.0	<10.0	<10.0	240
SSW-2 4'	<0.300	<0.050	<10.0	<10.0	<10.0	240
SSW-3 4'	<0.300	<0.050	<10.0	<10.0	<10.0	208
SSW-4 9'	<0.300	<0.050	<10.0	364	91.6	16
WSW-1 4'	<0.300	<0.050	<10.0	<10.0	<10.0	240
WSW-2 4'	<0.300	<0.050	<10.0	<10.0	<10.0	256
WSW-3 4'	<0.300	<0.050	<10.0	<10.0	<10.0	224
WSW-4 4'	<0.300	<0.050	<10.0	<10.0	<10.0	240
WSW-5 4'	<0.300	<0.050	<10.0	<10.0	<10.0	240
WSW-6 9'	<0.300	<0.050	<10.0	<10.0	<10.0	16

(ND) Analyte Not Detected

Laboratory data is attached in Appendix D

After receiving laboratory results, three of our sidewall samples were still above closure criteria, so we excavated an additional six inches horizontally from their respective areas. An additional notification was submitted to the NMOCD, and we re-sampled the aforementioned sidewalls. The results from this sampling event are presented in the following data table:

5-28-25 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 78')							
Sample Date 5/28/24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 10,000 mg/kg
Sample ID	Depth (BGs)	BTEX	Benzene	GRO	DRD	EXT	CHLORIDES
NSW-2	9'	ND	ND	ND	ND	ND	128
ESW-6	9'	ND	ND	ND	ND	ND	32
SSW-4	9'	ND	ND	ND	ND	ND	96

During the review of this closure report, it was discovered that backfill samples weren't obtained during the project's backfill activities. A sampling notification was submitted to the NMOCD, and on July 17, 2025, Paragon returned to the location and obtained three composite samples of the backfill.

7-17-25 Composite Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 78')								
Sample Date 7/17/24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 2,500 mg/kg	Closure Criteria 10,000 mg/kg
Sample ID	Depth (BGs)	BTEX	Benzene	GRO	DRD	EXT	Total TPH	CHLORIDES
Backfill 1	Composite	ND	ND	ND	13.9	ND	13.9	48
Backfill 2	Composite	ND	ND	ND	37.2	16.7	53.9	32
Backfill 3	Composite	ND	ND	ND	12.7	ND	12.7	32

These laboratory analytical results showed that the confirmation soil samples were below NMOCD Closure Criteria. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. After receiving laboratory analytical results below the closure criteria, the excavated areas were backfilled with "like" material obtained from a localized sand pit. The affected area was then contoured and machine-compacted to match the surrounding grade.

**CLOSURE REQUEST**

After careful review, Paragon requests that the incident, nAPP2232679528, be closed. Spur has complied with the applicable closure requirements outlined in Rule 19.15.19.12 NMAC.

If you have any questions or need additional information, don't hesitate to get in touch with Chris Jones by phone at (575) 631-6977 or by email.

Respectfully,



Tristan Jones  
Project Coordinator  
Paragon Environmental, LLC



Chris Jones  
Environmental Professional  
Paragon Environmental, LLC

**Attachments****Figures:**

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Wetlands Map
- 5- Confirmation Sample Maps

**Appendices:**

- Appendix A- Referenced Water Surveys
- Appendix B- Soil Survey and FEMA Flood Map
- Appendix C- Email Notification & Photographic Documentation
- Appendix D- Laboratory Reports
- Appendix E- Previously Submitted Closure Report



Figures:


- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Wetlands Map
- 5- Confirmation Map




# Spur Energy Partners

Folk St 11 Battery  
Eddy County, NM  
Site Map

## Legend

 Spill Area 1700 S/F

Folk St 11 Battery 32.83371,-104.09593 



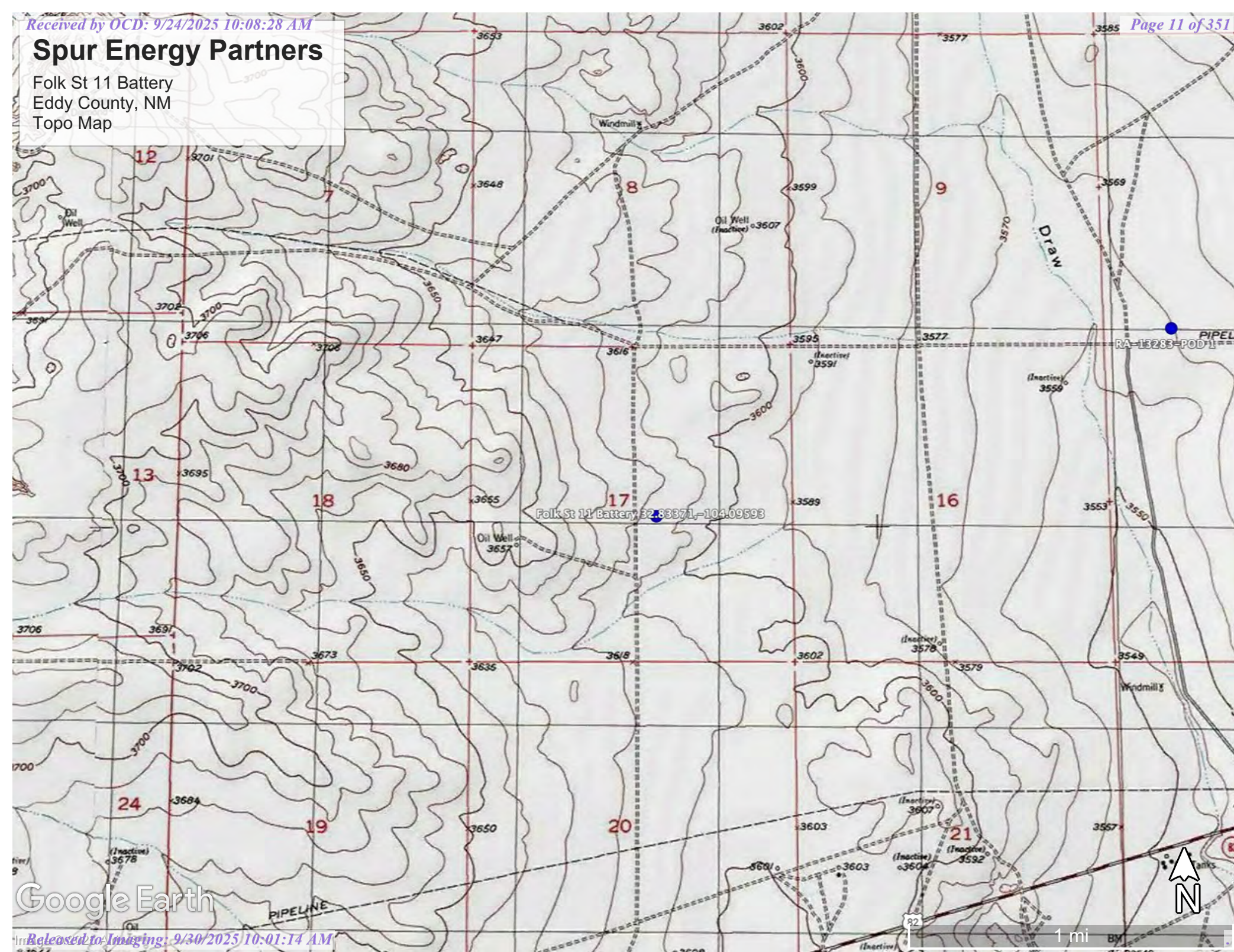
 100 ft

Google Earth



# Spur Energy Partners

Folk St 11 Battery  
Eddy County, NM  
Topo Map



Google Earth



# Spur Energy Partners

Folk St 11 Battery  
Eddy County, NM  
Karst Map

## Legend

- High
- Low
- Medium

RA-13283-POD 1

S-14  
S-5  
S-8  
S-7

RA-13395 POD 1 (TW-1)

82



1 mi


Google Earth



# Spur Energy Partners

Folk St 11 Battery  
Eddy County, NM  
Wetlands Map

## Legend

 Wetlands 5642 Ft

Folk St 11 Battery 32.83371, -104.09593

RA-13283-POD

Google Earth

82

1 mi





# Spur Energy Partners

Folk St 11 Battery  
Eddy County, NM  
Confirmation Map

Folk St 11 Battery 32.83371,-104.09593

## Legend

- 4' Excavation 1640 S/F
- 9' Excavation 63 S/F



80 ft

Google Earth



Appendix A:

Referenced Water Data

Drilling Report



# FOLK STATE #11 BATTERY DRILLING PHOTOS







# Desert Sand Water Well Services, LLC.

## Soil Bore Report

General / Well Info	Customer: <b>ESS/Spur Energy</b>		Phone: <b>575-390-6397</b>	Date: <b>5/10/20</b>
	Well Name: <b>Folk State</b>		Location: <b>32.8336260, -104.0965154</b>	

LOG OF WELL	DEPTH		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER BEARING CAVITIES OR FRACTURES
	FROM	TO		
	0	3	3	TOP SOIL
	3	14	11	CHALECHE
	14	20	6	RED SAND/CLAY
	20	30	10	RED SAND
	30	78	48	ANHYDRITE / RED SNAD / CLAY
				LEFT BORE HOLE OPEN FOR 48 HOURS. UPON RETURNING THE BORE WAS
				STILL DRY AT 78'. PLUGGED BORE HOLE FROM THE BOTTOM UP
				WITH 3/8 HOLE PLUG (BENTONITE CHIP).





Appendix B:

Soil Survey

U.S.D.A.

FEMA Flood Map

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### KT—Kimbrough-Stegall loams, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w4t

*Elevation:* 2,750 to 5,000 feet

*Mean annual precipitation:* 8 to 16 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 230 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kimbrough and similar soils:* 70 percent

*Stegall and similar soils:* 25 percent

*Minor components:* 5 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Kimbrough

##### Setting

*Landform:* Alluvial fans, plains

*Landform position (three-dimensional):* Rise, tal

*Down-slope shape:* Linear, convex

*Across-slope shape:* Linear

*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 3 inches:* loam

*H2 - 3 to 9 inches:* loam

*H3 - 9 to 60 inches:* indurated

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 8 to 20 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Very low (about 1.3 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s



Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

---

*Hydrologic Soil Group:* D  
*Ecological site:* R070BC025NM - Shallow  
*Hydric soil rating:* No

### Description of Stegall

#### Setting

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

#### Typical profile

*H1 - 0 to 5 inches:* loam  
*H2 - 5 to 28 inches:* clay loam  
*H3 - 28 to 32 inches:* indurated  
*H4 - 32 to 60 inches:* variable

#### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 20 to 40 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 90 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Low (about 4.8 inches)

#### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

### Minor Components

#### Simona

*Percent of map unit:* 5 percent  
*Ecological site:* R070BD002NM - Shallow Sandy  
*Hydric soil rating:* No

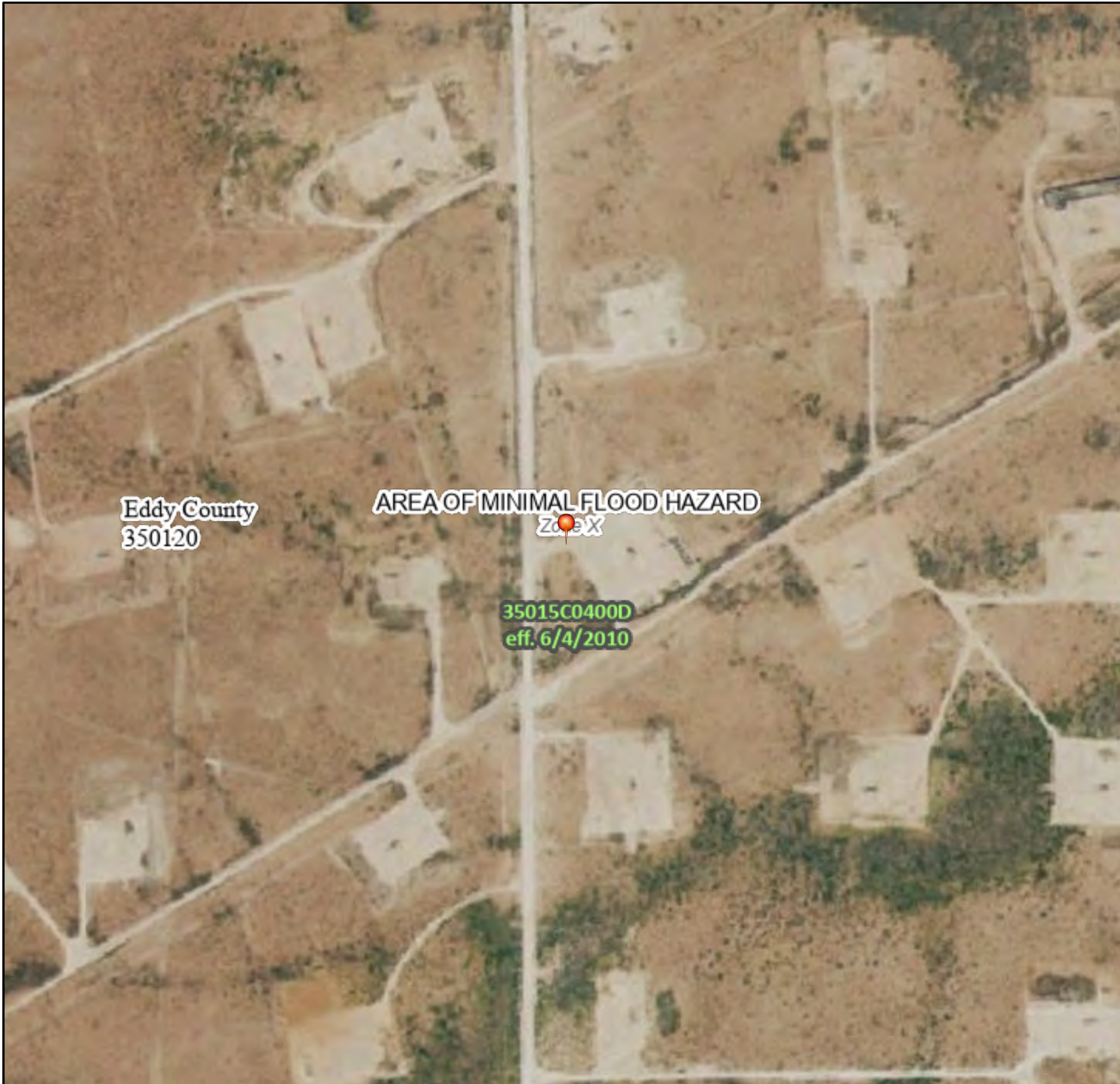
## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 20, Sep 3, 2024

# National Flood Hazard Layer FIRMMette



104°6'6"W 32°50'17"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°5'29"W 32°49'46"N

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/25/2025 at 12:02 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Appendix C:

NMOCD Notification

Photographic Documentation



OCD Permitting

HomeOperator DataAction StatusAction Search ResultsAction Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	461209	Districts:	Artesia
Operator:	[328947] Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] , FOLK STATE 11 BATTERY , nAPP2232679528		
Status:	APPROVED		
Status Date:	05/12/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2232679528
Incident Name	NAPP2232679528 FOLK STATE 11 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2201051330] Folk State 11 Tank Battery

Location of Release Source

Site Name	FOLK STATE 11 BATTERY
Date Release Discovered	11/22/2022
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,600
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Angel Pena 575-605-0773
Please provide any information necessary for navigation to sampling site	32.83371,-104.09593

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:	apena (5/12/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.
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Reasons

No reasons found for this submission.

Go Back





OCD Permitting

HomeOperator DataAction StatusAction Search ResultsAction Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	467009	Districts:	Artesia
Operator:	[328947] Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] , FOLK STATE 11 BATTERY , nAPP2232679528		
Status:	APPROVED		
Status Date:	05/23/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2232679528
Incident Name	NAPP2232679528 FOLK STATE 11 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2201051330] Folk State 11 Tank Battery

Location of Release Source

Site Name	FOLK STATE 11 BATTERY
Date Release Discovered	11/22/2022
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	100
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/28/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Angel Pena 575-605-0773
Please provide any information necessary for navigation to sampling site	32.83371,-104.09593

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----------	--

Reasons

No reasons found for this submission.

Go Back



OCD Permitting

HomeOperator DataAction StatusAction Search ResultsAction Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	484733	Districts:	Artesia
Operator:	[328947] Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] , FOLK STATE 11 BATTERY , nAPP2232679528		
Status:	APPROVED		
Status Date:	07/14/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2232679528
Incident Name	NAPP2232679528 FOLK STATE 11 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2201051330] Folk State 11 Tank Battery

Location of Release Source

Site Name	FOLK STATE 11 BATTERY
Date Release Discovered	11/22/2022
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/17/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	575-605-0773 Angel Pena
Please provide any information necessary for navigation to sampling site	32.83371, -104.09593

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:	apena (7/14/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.  apena (7/14/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.
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Reasons

No reasons found for this submission.

Go Back



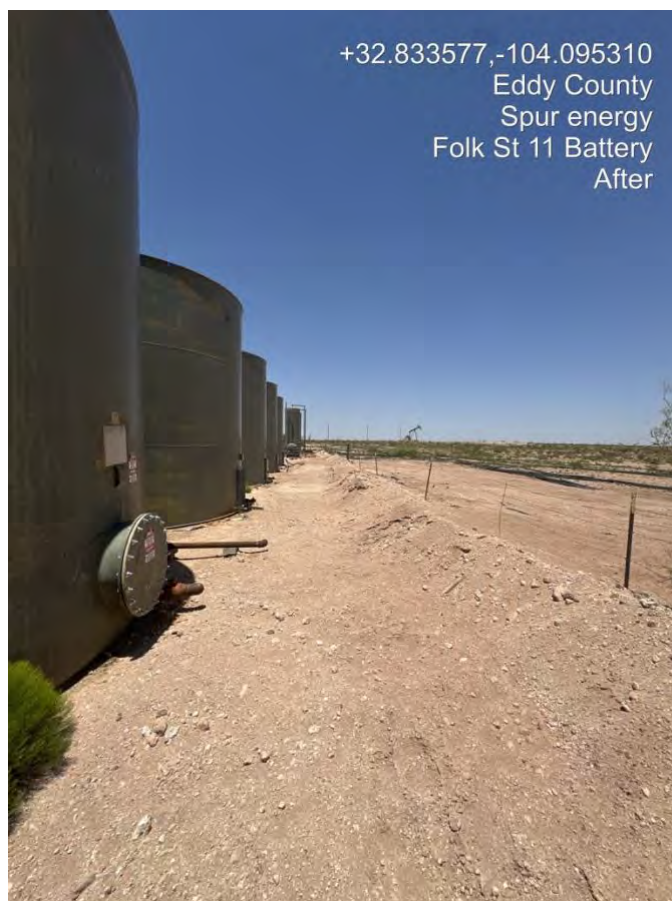


**Photographic Documentation  
During**





Completed





+32.833804,-104.095517  
Eddy County  
Spur energy  
Folk St 11 Battery  
After





Appendix D:  
Laboratory Results

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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July 10, 2025

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: FOLK STATE II BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/16/25 15:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C - 1 4'	H252986-01	Soil	15-May-25 00:00	16-May-25 15:29
C - 2 4'	H252986-02	Soil	15-May-25 00:00	16-May-25 15:29
C - 3 4'	H252986-03	Soil	15-May-25 00:00	16-May-25 15:29
C - 4 9'	H252986-04	Soil	15-May-25 00:00	16-May-25 15:29
C - 5 4'	H252986-05	Soil	15-May-25 00:00	16-May-25 15:29
C - 6 4'	H252986-06	Soil	15-May-25 00:00	16-May-25 15:29
C - 7 4'	H252986-07	Soil	15-May-25 00:00	16-May-25 15:29
C - 8 4'	H252986-08	Soil	15-May-25 00:00	16-May-25 15:29
C - 9 4'	H252986-09	Soil	15-May-25 00:00	16-May-25 15:29
NSW - 1 4'	H252986-10	Soil	15-May-25 00:00	16-May-25 15:29
WSW - 1 4'	H252986-11	Soil	15-May-25 00:00	16-May-25 15:29
WSW - 2 4'	H252986-12	Soil	15-May-25 00:00	16-May-25 15:29
WSW - 3 4'	H252986-13	Soil	15-May-25 00:00	16-May-25 15:29
WSW - 4 4'	H252986-14	Soil	15-May-25 00:00	16-May-25 15:29
WSW - 5 4'	H252986-15	Soil	15-May-25 00:00	16-May-25 15:29
ESW - 1 4'	H252986-16	Soil	15-May-25 00:00	16-May-25 15:29
ESW - 2 4'	H252986-17	Soil	15-May-25 00:00	16-May-25 15:29
ESW - 3 4'	H252986-18	Soil	15-May-25 00:00	16-May-25 15:29
ESW - 4 4'	H252986-19	Soil	15-May-25 00:00	16-May-25 15:29
ESW - 5 4'	H252986-20	Soil	15-May-25 00:00	16-May-25 15:29
SSW - 1 4'	H252986-21	Soil	15-May-25 00:00	16-May-25 15:29
SSW - 2 4'	H252986-22	Soil	15-May-25 00:00	16-May-25 15:29
SSW - 3 4'	H252986-23	Soil	15-May-25 00:00	16-May-25 15:29
WSW - 6 9'	H252986-24	Soil	15-May-25 00:00	16-May-25 15:29
NSW - 2 9'	H252986-25	Soil	15-May-25 00:00	16-May-25 15:29
ESW - 6 9'	H252986-26	Soil	15-May-25 00:00	16-May-25 15:29
SSW - 4 9'	H252986-27	Soil	15-May-25 00:00	16-May-25 15:29

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

07/10/25 - Client changed all samples from grab to composite (see COC). This is the revised report and will replace the one sent on 05/22/25.

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 1 4'**  
**H252986-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>288</b>		16.0	mg/kg	4	5051914	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.7 %	71.5-134			5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane	80.8 %	44.4-145			5051640	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane	75.6 %	40.6-153			5051640	MS	19-May-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 2 4'**  
**H252986-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %	71.5-134		5051633	JH	19-May-25	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			66.6 %	44.4-145		5051640	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			61.8 %	40.6-153		5051640	MS	19-May-25	8015B	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 3 4'**  
**H252986-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	98.8 %	71.5-134	5051633	JH	19-May-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B

Surrogate: 1-Chlorooctane	74.3 %	44.4-145	5051640	MS	19-May-25	8015B
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Surrogate: 1-Chlorooctadecane	70.4 %	40.6-153	5051640	MS	19-May-25	8015B
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 4 9'**  
**H252986-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	71.5-134		5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.1 %	44.4-145		5051640	MS	19-May-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			64.5 %	40.6-153		5051640	MS	19-May-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 5 4'**  
**H252986-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.7 %		71.5-134	5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			71.5 %		44.4-145	5051640	MS	19-May-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			66.9 %		40.6-153	5051640	MS	19-May-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 6 4'**  
**H252986-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	71.5-134	5051633	JH	19-May-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5051640	MS	19-May-25	8015B

Surrogate: 1-Chlorooctane	71.4 %	44.4-145	5051640	MS	19-May-25	8015B
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Surrogate: 1-Chlorooctadecane	67.3 %	40.6-153	5051640	MS	19-May-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 7 4'**  
**H252986-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051640	MS	19-May-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			72.8 %	44.4-145		5051640	MS	19-May-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			69.5 %	40.6-153		5051640	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 8 4'**  
**H252986-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.5 %		71.5-134	5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.9 %		44.4-145	5051641	MS	19-May-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.3 %		40.6-153	5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**C - 9 4'**  
**H252986-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>288</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5051633	JH	19-May-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.4 %	71.5-134	5051633	JH	19-May-25	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			84.0 %	44.4-145	5051641	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.8 %	40.6-153	5051641	MS	19-May-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**NSW - 1 4'**  
**H252986-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5-134		5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane			80.6 %	44.4-145		5051641	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane			77.8 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**WSW - 1 4'**  
**H252986-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.6 %	71.5-134		5051633	JH	19-May-25	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			69.3 %	44.4-145		5051641	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			65.3 %	40.6-153		5051641	MS	19-May-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**WSW - 2 4'**  
**H252986-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %	71.5-134		5051633	JH	19-May-25	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			81.3 %	44.4-145		5051641	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			77.8 %	40.6-153		5051641	MS	19-May-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**WSW - 3 4'**  
**H252986-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.9 %	71.5-134	5051633	JH	19-May-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B

Surrogate: 1-Chlorooctane	72.9 %	44.4-145	5051641	MS	19-May-25	8015B
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Surrogate: 1-Chlorooctadecane	68.9 %	40.6-153	5051641	MS	19-May-25	8015B
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**WSW - 4 4'**  
**H252986-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5-134		5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane			82.6 %	44.4-145		5051641	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane			78.0 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**WSW - 5 4'**  
**H252986-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.8 %	71.5-134		5051633	JH	19-May-25	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			84.3 %	44.4-145		5051641	MS	19-May-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			80.5 %	40.6-153		5051641	MS	19-May-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**ESW - 1 4'**  
**H252986-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		71.5-134	5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane			86.6 %		44.4-145	5051641	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.7 %		40.6-153	5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**ESW - 2 4'**  
**H252986-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.5 %		71.5-134	5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.3 %		44.4-145	5051641	MS	19-May-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.7 %		40.6-153	5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**ESW - 3 4'**  
**H252986-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.3 %		71.5-134	5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>30.8</b>		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.1 %		44.4-145	5051641	MS	19-May-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.0 %		40.6-153	5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**ESW - 4 4'**  
**H252986-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>272</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5051633	JH	19-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	99.9 %	71.5-134			5051633	JH	19-May-25	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
Surrogate: 1-Chlorooctane	80.9 %	44.4-145			5051641	MS	19-May-25	8015B	
Surrogate: 1-Chlorooctadecane	78.5 %	40.6-153			5051641	MS	19-May-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**ESW - 5 4'**  
**H252986-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051633	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051633	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051633	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5-134		5051633	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane			74.1 %	44.4-145		5051641	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane			69.3 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**SSW - 1 4'**  
**H252986-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5051923	AC	19-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051905	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051905	JH	19-May-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		5051905	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.5 %	44.4-145		5051641	MS	19-May-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			65.8 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**SSW - 2 4'**  
**H252986-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5052006	KH	20-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051905	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051905	JH	19-May-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		5051905	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.9 %	44.4-145		5051641	MS	19-May-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.6 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**SSW - 3 4'**  
**H252986-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5052006	KH	20-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5051905	JH	19-May-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5051905	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	71.5-134	5051905	JH	19-May-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5051641	MS	19-May-25	8015B

Surrogate: 1-Chlorooctane	75.8 %	44.4-145	5051641	MS	19-May-25	8015B
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Surrogate: 1-Chlorooctadecane	70.5 %	40.6-153	5051641	MS	19-May-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**WSW - 6 9'**  
**H252986-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	5052006	KH	20-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051905	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051905	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		5051905	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane			73.3 %	44.4-145		5051641	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane			68.1 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**NSW - 2 9'**  
**H252986-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	5052006	KH	20-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051905	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051905	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		5051905	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>181</b>		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>39.0</b>		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane			79.0 %	44.4-145		5051641	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane			79.8 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**ESW - 6 9'**  
**H252986-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	5052006	KH	20-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051905	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051905	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		5051905	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1260</b>		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>276</b>		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane			76.1 %	44.4-145		5051641	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**SSW - 4 9'**  
**H252986-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	5052006	KH	20-May-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051905	JH	19-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051905	JH	19-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051905	JH	19-May-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		5051905	JH	19-May-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
DRO >C10-C28*	<b>364</b>		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	
EXT DRO >C28-C36	<b>91.6</b>		10.0	mg/kg	1	5051641	MS	19-May-25	8015B	

Surrogate: 1-Chlorooctane			86.5 %	44.4-145		5051641	MS	19-May-25	8015B	
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Surrogate: 1-Chlorooctadecane			91.9 %	40.6-153		5051641	MS	19-May-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5051914 - 1:4 DI Water****Blank (5051914-BLK1)**

Prepared &amp; Analyzed: 19-May-25

Chloride	ND	16.0	mg/kg
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**LCS (5051914-BS1)**

Prepared &amp; Analyzed: 19-May-25

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (5051914-BSD1)**

Prepared &amp; Analyzed: 19-May-25

Chloride	448	16.0	mg/kg	400	112	80-120	7.41	20
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**Batch 5051923 - 1:4 DI Water****Blank (5051923-BLK1)**

Prepared &amp; Analyzed: 19-May-25

Chloride	ND	16.0	mg/kg
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**LCS (5051923-BS1)**

Prepared &amp; Analyzed: 19-May-25

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (5051923-BSD1)**

Prepared &amp; Analyzed: 19-May-25

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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**Batch 5052006 - 1:4 DI Water****Blank (5052006-BLK1)**

Prepared &amp; Analyzed: 20-May-25

Chloride	ND	16.0	mg/kg
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**LCS (5052006-BS1)**

Prepared &amp; Analyzed: 20-May-25

Chloride	432	16.0	mg/kg	400	108	80-120
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5052006 - 1:4 DI Water****LCS Dup (5052006-BSD1)**

Prepared &amp; Analyzed: 20-May-25

Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5051633 - Volatiles****Blank (5051633-BLK1)**

Prepared: 16-May-25 Analyzed: 19-May-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.6	71.5-134			

**LCS (5051633-BS1)**

Prepared: 16-May-25 Analyzed: 19-May-25

Benzene	2.12	0.050	mg/kg	2.00		106	76.3-129			
Toluene	2.17	0.050	mg/kg	2.00		109	84.1-129			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	80.1-133			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	81.4-134			
o-Xylene	2.05	0.050	mg/kg	2.00		103	81.4-133			
Total Xylenes	6.21	0.150	mg/kg	6.00		103	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0483		mg/kg	0.0500		96.6	71.5-134			

**LCS Dup (5051633-BSD1)**

Prepared: 16-May-25 Analyzed: 19-May-25

Benzene	2.16	0.050	mg/kg	2.00		108	76.3-129	2.10	15.8	
Toluene	2.22	0.050	mg/kg	2.00		111	84.1-129	2.42	15.9	
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	80.1-133	3.19	16	
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	81.4-134	3.16	16.2	
o-Xylene	2.12	0.050	mg/kg	2.00		106	81.4-133	3.03	16.7	
Total Xylenes	6.40	0.150	mg/kg	6.00		107	81.5-134	3.12	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500		97.1	71.5-134			

**Batch 5051905 - Volatiles****Blank (5051905-BLK1)**

Prepared &amp; Analyzed: 19-May-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5051905 - Volatiles****Blank (5051905-BLK1)**

Prepared &amp; Analyzed: 19-May-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0552		mg/kg	0.0500		110	71.5-134			

**LCS (5051905-BS1)**

Prepared &amp; Analyzed: 19-May-25

Benzene	2.14	0.050	mg/kg	2.00		107	76.3-129			
Toluene	2.11	0.050	mg/kg	2.00		106	84.1-129			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	80.1-133			
m,p-Xylene	4.37	0.100	mg/kg	4.00		109	81.4-134			
o-Xylene	2.17	0.050	mg/kg	2.00		109	81.4-133			
Total Xylenes	6.54	0.150	mg/kg	6.00		109	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	71.5-134			

**LCS Dup (5051905-BS1)**

Prepared &amp; Analyzed: 19-May-25

Benzene	2.19	0.050	mg/kg	2.00		109	76.3-129	2.26	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	84.1-129	1.25	15.9	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	80.1-133	0.773	16	
m,p-Xylene	4.41	0.100	mg/kg	4.00		110	81.4-134	0.944	16.2	
o-Xylene	2.20	0.050	mg/kg	2.00		110	81.4-133	1.41	16.7	
Total Xylenes	6.61	0.150	mg/kg	6.00		110	81.5-134	1.10	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.6	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5051640 - General Prep - Organics****Blank (5051640-BLK1)**

Prepared: 16-May-25 Analyzed: 19-May-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	44.4-145		
Surrogate: 1-Chlorooctadecane	46.8		mg/kg	50.0		93.7	40.6-153		

**LCS (5051640-BS1)**

Prepared: 16-May-25 Analyzed: 19-May-25

GRO C6-C10	214	10.0	mg/kg	200		107	81.5-123		
DRO >C10-C28	210	10.0	mg/kg	200		105	77.7-122		
Total TPH C6-C28	424	10.0	mg/kg	400		106	80.9-121		
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	44.4-145		
Surrogate: 1-Chlorooctadecane	50.2		mg/kg	50.0		100	40.6-153		

**LCS Dup (5051640-BS1)**

Prepared: 16-May-25 Analyzed: 19-May-25

GRO C6-C10	209	10.0	mg/kg	200		104	81.5-123	2.41	13
DRO >C10-C28	200	10.0	mg/kg	200		99.9	77.7-122	4.98	15.6
Total TPH C6-C28	409	10.0	mg/kg	400		102	80.9-121	3.67	18.5
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	44.4-145		
Surrogate: 1-Chlorooctadecane	50.2		mg/kg	50.0		100	40.6-153		

**Batch 5051641 - General Prep - Organics****Blank (5051641-BLK1)**

Prepared: 16-May-25 Analyzed: 19-May-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	44.4-145		
Surrogate: 1-Chlorooctadecane	48.1		mg/kg	50.0		96.3	40.6-153		

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: FOLK STATE II BATTERY  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
10-Jul-25 17:28

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5051641 - General Prep - Organics****LCS (5051641-BS1)**

Prepared: 16-May-25 Analyzed: 19-May-25

GRO C6-C10	210	10.0	mg/kg	200		105	81.5-123			
DRO >C10-C28	202	10.0	mg/kg	200		101	77.7-122			
Total TPH C6-C28	413	10.0	mg/kg	400		103	80.9-121			
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	44.4-145			
Surrogate: 1-Chlorooctadecane	50.2		mg/kg	50.0		100	40.6-153			

**LCS Dup (5051641-BSD1)**

Prepared: 16-May-25 Analyzed: 19-May-25

GRO C6-C10	207	10.0	mg/kg	200		103	81.5-123	1.58	13	
DRO >C10-C28	200	10.0	mg/kg	200		100	77.7-122	1.02	15.6	
Total TPH C6-C28	407	10.0	mg/kg	400		102	80.9-121	1.31	18.5	
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	44.4-145			
Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	40.6-153			

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

[illegible]





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Paragon Environmental		<b>BILL TO</b>		ANALYSIS REQUEST													
Project Manager: Chris Jones		P.O. #:															
Address: 1601 N. Turner St., Ste 500		Company: 11															
City: Hobbs		Attn:															
State: NM Zip: 88240		Address:															
Phone #: 575-964-7814 Fax #:		City:															
Project #:		State:															
Project Name: 11		Zip:															
Project Location: 11		Phone #:															
Sampler Name: 11		Fax #:															
FOR LAB USE ONLY		PRESERV		SAMPLING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TRH	BTEX	CHLORIDES
1185000	ESW-1	41											5/15				
12	ESW-2	41															
13	ESW-3	41															
14	ESW-4	41															
15	ESW-5	41															
16	ESW-1	41															
17	ESW-2	41															
18	ESW-3	41															
19	ESW-4	41															
20	ESW-5	41															
<p>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																	
Relinquished By: 1185000		Date: 5/10/25		Received By: ADP		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: 719/125		REMARKS: * Customer requested changes. 9/19/25							
Relinquished By: 1185000		Date: 5/10/25		Received By: ADP		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: 719/125		REMARKS: * Customer requested changes. 9/19/25							
Delivered By: (Circle One)		-2-8-1/40-3-		Sample Condition		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Checked By: (Initials) ADP									
Sampler - UPS - Bus - Other: -2-5-1/114																	

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Paragon Environmental		<b>BILL TO</b>	
Project Manager: Chris Jones		P.O. #:	
Address: 1601 N. Turner St., Ste 500		Company: 11	
City: Hobbs		Attn:	
Phone #: 575-964-7814		Address:	
Fax #:		City:	
Project #:		State:	
Project Name: 11		Zip:	
Project Location: 11		Phone #:	
Sample Name: 11		Fax #:	
FOR LAB USE ONLY		PRESERV	
Lab I.D.		SAMPLING	
Sample I.D.			
(G)RAB OR (C)OMP.			
# CONTAINERS			
GROUNDWATER			
WASTEWATER			
SOIL			
OIL			
SLUDGE			
OTHER :			
ACID/BASE:			
ICE / COOL			
OTHER :			
DATE		TIME	
5/15			
TPH			
BTEX			
CHLORIDES			
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 10, 2025

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: FOLK STATE II BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/09/25 15:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	06/09/2025	Sampling Date:	05/28/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	FOLK STATE II BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY COUNTY		

**Sample ID: NSW - 2 9' (H253425-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	2.08	104	2.00	9.90		
Toluene*	<0.050	0.050	06/09/2025	ND	2.26	113	2.00	9.23		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.11	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.33	106	6.00	9.49		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/10/2025	ND	480	120	400	6.90		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	202	101	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	192	96.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.0 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	06/09/2025	Sampling Date:	05/28/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	FOLK STATE II BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY COUNTY		

**Sample ID: ESW - 6 9' (H253425-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	2.08	104	2.00	9.90		
Toluene*	<0.050	0.050	06/09/2025	ND	2.26	113	2.00	9.23		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.11	105	2.00	9.51		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.33	106	6.00	9.49		
Total BTEx	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/10/2025	ND	480	120	400	6.90		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	202	101	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	192	96.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.1 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	06/09/2025	Sampling Date:	05/28/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	FOLK STATE II BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY COUNTY		

**Sample ID: SSW - 4 9' (H253425-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2025	ND	2.08	104	2.00	9.90	
Toluene*	<0.050	0.050	06/09/2025	ND	2.26	113	2.00	9.23	
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.11	105	2.00	9.51	
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.33	106	6.00	9.49	
Total BTEx	<0.300	0.300	06/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/10/2025	ND	480	120	400	6.90	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	202	101	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	192	96.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: SPOT Energy

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: Paragon Environmental

Project Manager: Chris Jones

Address: 1601 N. Turner St., Ste 500

City: Hobbs

Phone #: 575-964-7814

Project #:

Project Name: Folk State

Project Location: Rural Eddy

Sample Name: Anal PLo3

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

153345

2

USW-2 q'  
ESW-6 q'  
SSW-4 q'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

1111

TPIT  
BTEX  
Chlorides

Relinquished By: [Signature]

Date: 11.9.05

Received By: [Signature]

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #: 1019 223 2679528  
Fax Result: ☐ Yes ☐ No Add'l Fax #: 248-18254

Time:

Date: 11.5.03

Received By: [Signature]

Sample Condition

CHECKED BY: [Signature]

Delivered By: (Circle One) u.c. CWO-3

Cool Intact

Yes ☒ No ☐

Sampler - UPS - Bus - Other: u.c. #140

Yes ☒ No ☐

CHECKED BY: [Signature]

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 23, 2025

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: FOLK STATE II BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/17/25 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	07/17/2025	Sampling Date:	07/17/2025
Reported:	07/23/2025	Sampling Type:	Soil
Project Name:	FOLK STATE II BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY COUNTY		

**Sample ID: BACKFILL - 1 (H254318-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2025	ND	2.00	99.8	2.00	0.330		
Toluene*	<0.050	0.050	07/20/2025	ND	2.05	102	2.00	0.596		
Ethylbenzene*	<0.050	0.050	07/20/2025	ND	2.03	101	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/20/2025	ND	5.94	99.0	6.00	1.27		
Total BTEX	<0.300	0.300	07/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2025	ND	194	97.0	200	1.96	
DRO >C10-C28*	13.9	10.0	07/19/2025	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/19/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.2 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	07/17/2025	Sampling Date:	07/17/2025
Reported:	07/23/2025	Sampling Type:	Soil
Project Name:	FOLK STATE II BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY COUNTY		

**Sample ID: BACKFILL - 2 (H254318-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2025	ND	2.00	99.8	2.00	0.330		
Toluene*	<0.050	0.050	07/20/2025	ND	2.05	102	2.00	0.596		
Ethylbenzene*	<0.050	0.050	07/20/2025	ND	2.03	101	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/20/2025	ND	5.94	99.0	6.00	1.27		
Total BTEx	<0.300	0.300	07/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2025	ND	194	97.0	200	1.96	
DRO >C10-C28*	37.2	10.0	07/19/2025	ND	215	107	200	1.44	
EXT DRO >C28-C36	16.7	10.0	07/19/2025	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.3 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	07/17/2025	Sampling Date:	07/17/2025
Reported:	07/23/2025	Sampling Type:	Soil
Project Name:	FOLK STATE II BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	SPUR - EDDY COUNTY		

**Sample ID: BACKFILL - 3 (H254318-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2025	ND	2.00	99.8	2.00	0.330		
Toluene*	<0.050	0.050	07/20/2025	ND	2.05	102	2.00	0.596		
Ethylbenzene*	<0.050	0.050	07/20/2025	ND	2.03	101	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/20/2025	ND	5.94	99.0	6.00	1.27		
Total BTEX	<0.300	0.300	07/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2025	ND	194	97.0	200	1.96	
DRO >C10-C28*	12.7	10.0	07/19/2025	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/19/2025	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.6 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

**(575) 393-2326 FAX (575) 393-2476**

[illegible]





Appendix E:  
Previously Submitted Report



February 12, 2025

Spur Energy Partners  
2407 Pecos Ave  
Artesia NM, 88210

Attn: Ms. Brittany Hall  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico, NM 87505

RE: **OCD Closure Denial Response and Amended Deferral Report**  
Folk State 11 Battery  
Unit J, Section 17, Township 17 South, Range 29 East  
32.83371 °, -104.09593°  
Eddy County, New Mexico  
NMOCD No. nAPP2232679528  
Terracon Project No. KH227025

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit this amended deferral report on behalf of Spur Energy Partners (Spur Energy) to the New Mexico Oil and Gas Conservation Division (NMOCD). This amended deferral report is being submitted in response to NMOCD's July 15, 2024, email denial of the October 12, 2023, Release Investigation and Deferral Request prepared by Terracon.

The NMOCD rejected the submitted application ID #357223 for approval of the release notification and corrective action (C141), for incident ID # nAPP2232679528 for the following reasons:

- Pursuant to **19.15.29.11 A. (2) NMAC**, The responsible party must determine the depth to groundwater where the release occurred. If the exact depth to groundwater is unknown, the responsible party must provide a reasonable determination of probable ground water depth using data generated by numeric models, cathodic well lithology, water well data, published information or other tools as approved by the appropriate division district office. If the responsible party uses water well data, the responsible party must provide all pertinent well information. The report does not contain any pertinent well information. Additionally, OCD did not find the exploratory well located 0.10 miles west of the site on the NMOSE website as indicated in the report and as illustrated on Appendix A, Exhibit 3.

Response: Spur contracted Desert Sand Water Well Services to complete an exploratory boring at the site on May 10, 2020. The GPS location of the borehole is 32.8336260, -104.0965154, which is located approximately 350 feet west of the Folk 11 tank battery. The boring was advanced to 78 feet below ground surface (bgs). The boring was allowed to remain open for 48 hours and was found to be "dry", with no

Explore with us

NMOCD Closure Denial Response and Amended Closure Report  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



groundwater recovery. This information was provided to NMOCD on May 20, 2021. The boring log, site map, and photo documentation with NMOCD received stamp is attached in Appendix A

- **The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.**

Response: Spur contracted Desert Sand Water Well Services to complete an exploratory boring at the site on May 10, 2020. The GPS location of the borehole is 32.8336260, -104.0965154, which is located approximately 350 feet west of the Folk 11 tank battery. The boring was advanced to 78 feet below ground surface (bgs). The boring was allowed to remain open for 48 hours and was found to be “dry”, with no groundwater recovery. This information was provided to NMOCD on May 20, 2021. The boring log, site map, and photo documentation with NMOCD received stamp is attached in Appendix A

- **Deferral cannot be approved as the contamination is not fully delineated pursuant to 19.15.29.12 C.(2) NMAC. Horizontal delineation will need to be completed east/northeast of the area to be requested for deferral.**

Response: Terracon returned to the site on August 21, 2024, and collected three additional horizontal delineation samples (E-1 (1'), NE-1 (1'), and SE-1 (1')). The samples were submitted for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) (EPA Method 8021B), Chlorides (EPA Method 300), and Total Petroleum Hydrocarbons (TPH) (EPA Method 8015M). The analytical results from the laboratory show that BTEX and TPH were reported below the laboratory detection limits at each of the three delineation sample locations. The laboratory reported Chloride concentrations at the analytical reporting limit of 16 mg/kg at each of the three delineation sample locations, which is well below the applicable NMOCD closure criteria. A Delineation Sample Location Map depicting the delineation sample locations and analytical results is included in Appendix A, Exhibit 2. Delineation sample analytical results are included in Appendix A, Exhibit 3, Table 1. The laboratory analytical Report and Chain of Custody is included in Appendix A, Exhibit 4. As shown in the attached table and maps, the additional sampling has completed delineation to the east/northeast as requested.

NMOCD Closure Denial Response and Amended Closure Report  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



- **Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1). (a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1). (a) NMAC. The samples listed on Tables 1 & 2 are identified as "confirmation evaluation" samples yet none of the samples listed on these tables were collected on the dates indicated as the sampling date on the two C-141N applications submitted. If additional sampling notifications were submitted via email as instructed prior to the digital C-141 release date (12/1/2023), those emails will need to be included in the next submission otherwise all confirmation samples may not be accepted for remediation closure.**

Response: Incident #napp2232679528 occurred on 11-22-2022. Remediation at the site took place in August 2023. Terracon retroactively notified the OCD of the sampling event on 10-18-23 through 10-31-23 and 12-21-23, informing that sampling events had already occurred. Terracon submitted a sampling notification for 2-10-2025 in which confirmation samples were collected. A Confirmation Sample Map depicting the confirmation sample locations and analytical results is included in Appendix A, Exhibit 3. Confirmation sample analytical results are included in Appendix A, Exhibit 4, Table 2&3. Terracon is aware of NMOCD's requirements for prior notification, we have discussed this with our project teams and have incorporated the required prior notification into our workflow for future projects.

## **Conclusion**

Delineation and remediation of soil outside the immediate area occupied by active production equipment has been completed as described in Terracon's May 31, 2024, Release Investigation report. Additional delineation has been completed to the east/northeast of the site defining the extent of impacts in that direction. The remaining soil impacted above NMOCD closure criteria is located immediately under and around active production equipment and cannot be safely accessed at this time. Therefore, Spur Energy Partners respectfully requests deferral of remediation for incident ID # nAPP2232679528 that occurred at the Folk State 11 Battery location.



NMOCD Closure Denial Response and Amended Closure Report  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



We at Terracon are deeply grateful for the opportunity to offer our environmental services to Spur Energy Partners. We are committed to providing the highest level of service and support. Should you need further information or have any queries, we encourage you to reach out to our office at your earliest convenience.

Sincerely,



Prepared by:

Reviewed by:

A handwritten signature in black ink, appearing to read 'Travis Casey', written over a light gray circular background.

**Travis Casey**

Senior Staff Scientist  
Carlsbad, NM

**John Grams, P.G. (TX)**

Senior Geologist  
Lubbock

## Attachments

### Appendix A – Exhibits

- Exhibit 1 – Exploratory Boring Log and Photo Log
- Exhibit 2 – Delineation Sample Location Map
- Exhibit 3 - Confirmation Sample Map
- Exhibit 4 – Table 1 – Delineation / Deferral Zone Sample Results
  - Table 2 – Confirmation Floors
  - Table 3 – Confirmation Walls
- Exhibit 5 – Analytical Report and Chain of Custody

### Appendix B – Terracon Standard of Care, Limitations & Reliance

C-141 Summary Sheet

NMOCD Closure Denial Response and Amended Closure Report  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



## **APPENDIX A – EXHIBITS**



Desert Sand Water Well Services, LLC.

Soil Bore Report

General / Well Info	Customer: ESS/Spur Energy		Phone: 575-390-6397	Date: 5/10/20
	Well Name: Folk State		Location: 32.8336260, -104.0965154	

LOG OF WELL	DEPTH		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER BEARING CAVITIES OR FRACTURES
	FROM	TO		
	0	3	3	TOP SOIL
	3	14	11	CHALECHE
	14	20	6	RED SAND/CLAY
	20	30	10	RED SAND
	30	78	48	ANHYDRITE / RED SNAD / CLAY
				LEFT BORE HOLE OPEN FOR 48 HOURS. UPON RETURNING THE BORE WAS
				STILL DRY AT 78'. PLUGGED BORE HOLE FROM THE BOTTOM UP
				WITH 3/8 HOLE PLUG (BENTONITE CHIP).



# SPUR ENERGY PARTNERS

FOLK STATE #11 BATTERY  
BOREHOLE MAP

## Legend



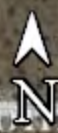
32.8336260 -104.0965154



211

Old Loco Rd N

BOREHOLE



Earth Point

900 ft

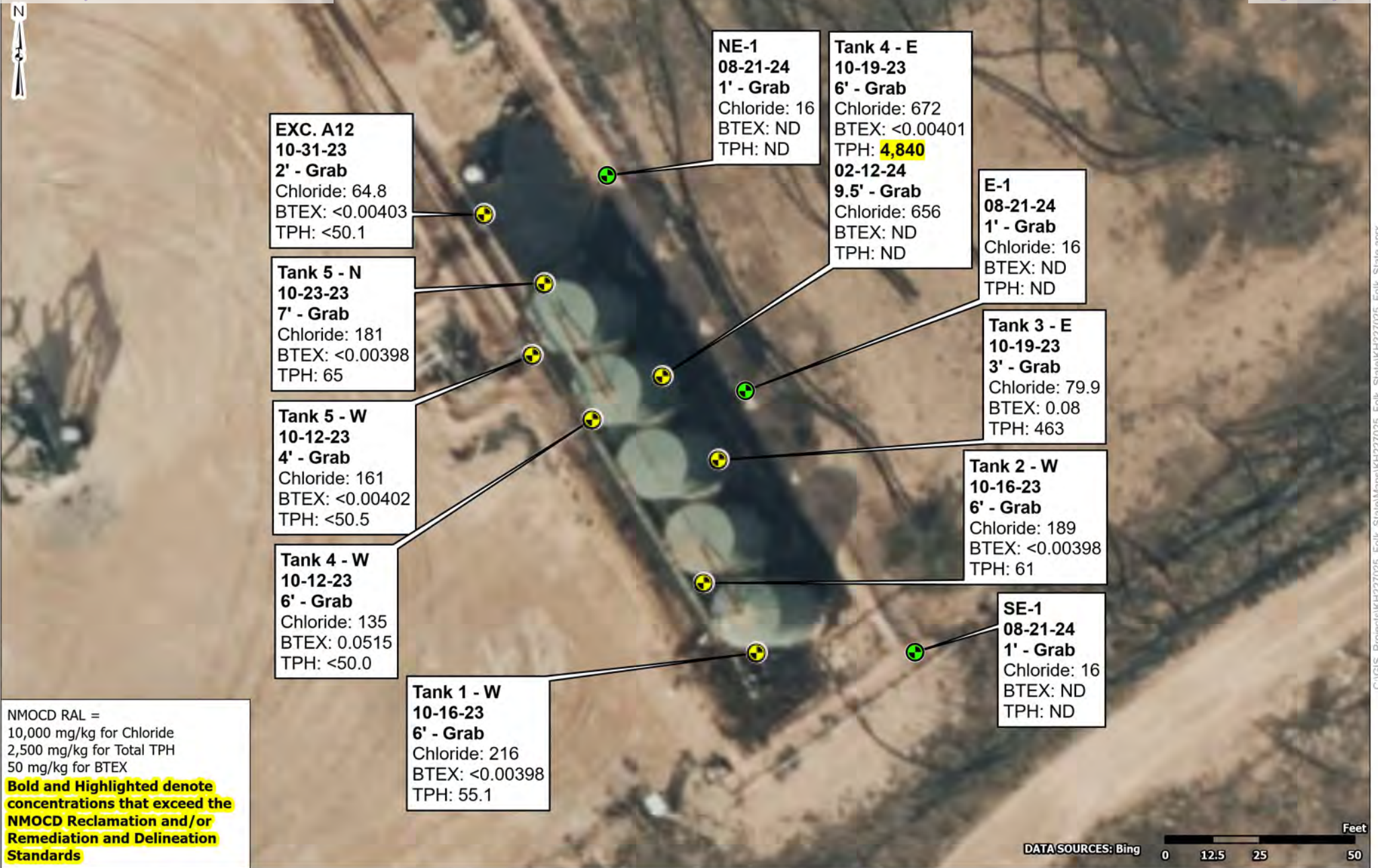


# FOLK STATE #11 BATTERY DRILLING PHOTOS









- Hand Auger Location
- Additional Hand Auger Location

Project No.:  
KH227025

Date:  
Aug 27 2024

Drawn By:  
JWL

Reviewed By:  
JRG

**Terracon**

4526 W Pierce St  
Carlsbad, NM

PH. 806-300-0140      terracon.com

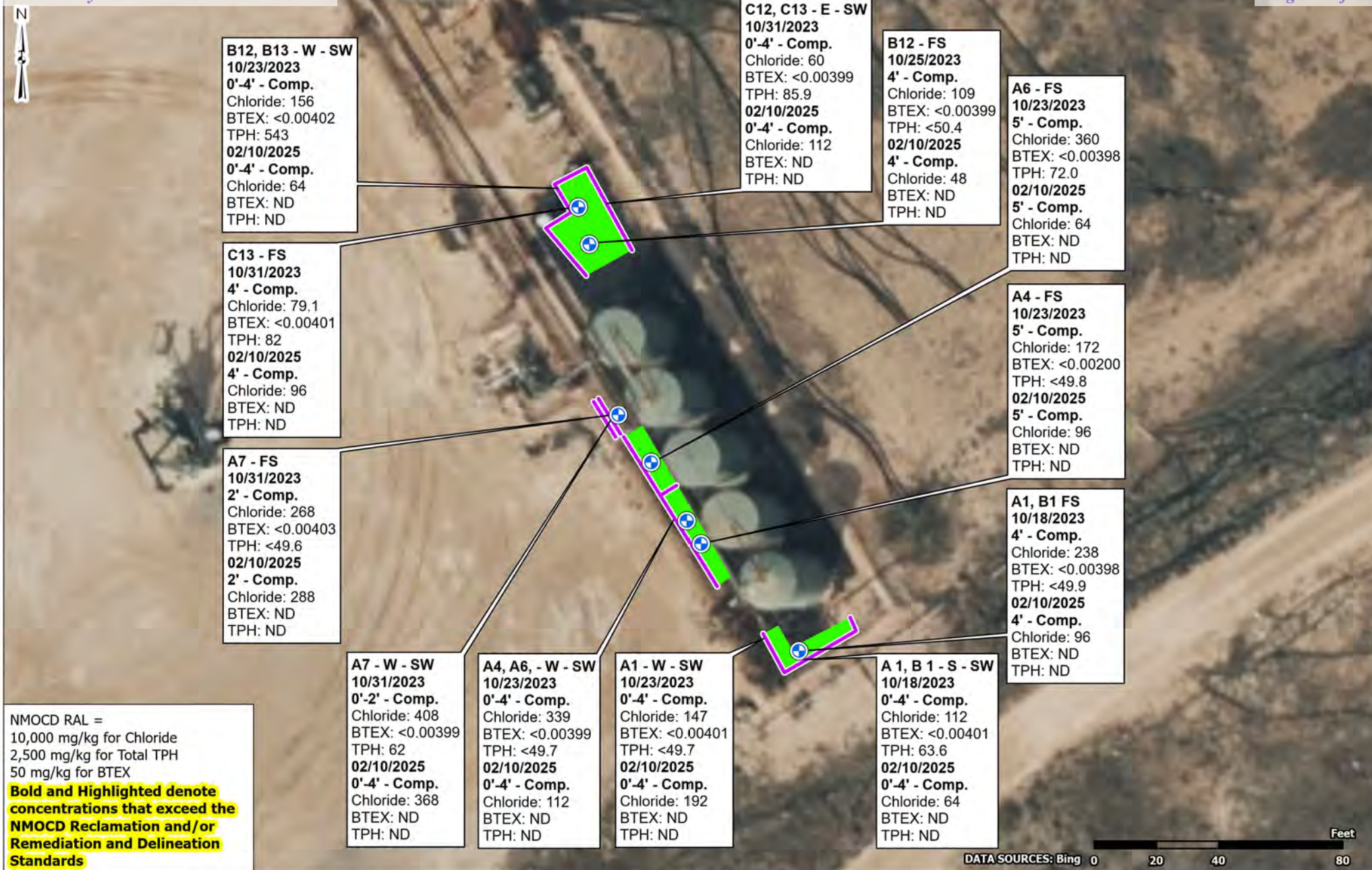
### Delineation Sample Location Map

Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

### Exhibit

2





- Floor Sample
- Wall Sample
- Excavation

Project No.:  
KH227025

Date:  
Feb 13 2025

Drawn By:  
JWL

Reviewed By:  
JRG

**Terracon**

4526 W Pierce St  
Carlsbad, NM

PH. 806-300-0140      terracon.com

### Confirmation Sample Map

Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

### Exhibit

3



Table 1 Soil Analytical Results Summary - Delineation / Deferral Zone Samples Folk State 11 Battery NMOCD Reference No. nAPP2232679528											
Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Deferral Samples											
TANK 1 - W	10/16/2023	6.0	Grab	In-situ	216	ND	ND	55.1	ND	55.1	ND
TANK 2 - W	10/16/2023	6.0	Grab	In-situ	189	ND	ND	61	ND	61	ND
TANK 4 - W	10/12/2023	6.0	Grab	In-situ	135	ND	0.00515	ND	ND	ND	ND
TANK 5 - W	10/12/2023	4.0	Grab	In-situ	161	ND	ND	ND	ND	ND	ND
TANK 3 - E	10/19/2023	3.0	Grab	Refusal	79.9	0.08	0.08	463	ND	463	ND
TANK 4 - E	10/19/2023	6.0	Grab	Refusal	672	ND	ND	4840	ND	4840	ND
	2/23/2024	9.5	Grab	Refusal	656	ND	ND	ND	ND	ND	ND
TANK 5 - N	10/23/2023	7.0	Grab	In-situ	181	ND	ND	65	ND	65	ND
Exc. A12	10/31/2023	2.0	Grab	In-situ	64.8	ND	ND	ND	ND	ND	ND
NE-1	8/21/2024	1.0	Grab	In-situ	16	ND	ND	ND	ND	ND	ND
E-1	8/21/2024	1.0	Grab	In-situ	16	ND	ND	ND	ND	ND	ND
SE-1	8/21/2024	1.0	Grab	In-situ	16	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards <sup>3</sup> (Surface to 4 ft bgs)					10,000	10	50	2,500	1,000		N/A
NMOCD Remediation Standards <sup>4</sup> (Greater than Depths of 4 ft bgs)					10,000	10	50	2,500	1,000		N/A
1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes 2. TPH = Total petroleum hydrocarbons 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018 ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL). NA = Not Analyzed Bold denotes concentrations above applicable laboratory SDLs. Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards. In-situ = Sample is representative of material which remains in-place at the site. Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.											

**Table 2**  
**Soil Analytical Results Summary - Confirmation Evaluation (Floor Samples)**  
**Project Code: KH227025**  
**NMOCD Reference No. nAPP2232679528**

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Floor Samples											
A1, B1 - FS	10/18/2023	4	Composite	In-situ	238	<0.00199	<0.00398	ND	ND	ND	ND
	2/10/2025	4	Composite	In-situ	96	ND	ND	ND	ND	ND	ND
A4 - FS	10/23/2023	5	Composite	In-situ	172	<0.00200	<0.00401	ND	ND	ND	ND
	2/10/2025	5	Composite	In-situ	192	ND	ND	ND	ND	ND	ND
A6 - FS	10/23/2023	5	Composite	In-situ	360	<0.00199	<0.00398	72	ND	72	ND
	2/10/2025	5	Composite	In-situ	64	ND	ND	ND	ND	ND	ND
A7 - FS	10/31/2023	2	Composite	In-situ	268	<0.00202	<0.00403	ND	ND	ND	ND
	2/10/2025	2	Composite	In-situ	288	ND	ND	ND	ND	ND	ND
B12 - FS	10/19/2023	4	Composite	In-situ	47.7	<0.0504	<0.101	120	ND	120	ND
	10/25/2023	4	Composite	In-situ	109	<0.00200	<0.00399	ND	ND	ND	ND
	2/10/2025	4	Composite	In-situ	48	ND	ND	ND	ND	ND	ND
C13 - FS	10/23/2023	4	Composite	In-situ	113	<0.00200	<0.00399	193	ND	193	ND
	10/31/2023	4	Composite	In-situ	79.1	<0.00200	<0.00401	82	ND	82	ND
	2/10/2025	4	Composite	In-situ	32	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards <sup>3</sup>					10,000	10	10	2,500	1,000		N/A
NMOCD Remediation Standards <sup>4</sup>					10,000	10	10	2,500	1,000		N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

**Bold denotes concentrations above applicable laboratory SDLs.**

**Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.**

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

**Table 3**  
**Soil Analytical Results Summary - Confirmation Evaluation (Wall Samples)**  
**Project Code: KH227025**  
**NMOCD Reference No. nAPP2232679528**

Sample ID	Sample Date	Sample Start Depth (ft bgs)	Sample Final Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
						EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Wall Samples												
A1, B1 - S - SW	10/18/2023	0	4	Composite	In-situ	112	<0.00200	<0.00401	63.6	ND	63.6	ND
	2/10/2025	0	4	Composite	In-situ	64	ND	ND	ND	ND	ND	ND
A1 - W - SW	10/23/2023	0	4	Composite	In-situ	147	<0.00200	<0.00401	ND	ND	ND	ND
	2/10/2025	0	4	Composite	In-situ	192	ND	ND	ND	ND	ND	ND
A4,A6 - W - SW	10/23/2023	0	5	Composite	In-situ	339	<0.00200	<0.00399	ND	ND	ND	ND
	2/10/2025	0	4	Composite	In-situ	112	ND	ND	ND	ND	ND	ND
A7 - W - SW	10/18/2023	0	2	Composite	In-situ	125	<0.00202	<0.00403	1310	ND	1310	ND
	10/31/2023	0	2	Composite	In-situ	408	<0.00200	<0.00399	62	ND	62	ND
	2/10/2025	0	2	Composite	In-situ	368	ND	ND	10	ND	10	ND
B12,B13 - W - SW	10/23/2023	0	4	Composite	In-situ	156	<0.00201	<0.00402	543	ND	543	ND
	2/10/2025	0	4	Composite	In-situ	64	ND	ND	ND	ND	ND	ND
C12,C13 - NE - SW	10/23/2023	0	4	Composite	In-situ	90.8	<0.00199	<0.00398	181	ND	181	ND
	10/31/2023	0	4	Composite	In-situ	60	<0.00200	<0.00399	85.9	ND	85.9	ND
C12,C13 - E - SW	2/10/2025	0	4	Composite	In-situ	112	ND	ND	ND	ND	ND	ND
NMOCd Reclamation Standards <sup>3</sup>						10,000	10	50	2,500		1,000	N/A
NMOCd Remediation Standards <sup>4</sup>						10,000	10	50	2,500		1,000	N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

**Bold denotes concentrations above applicable laboratory SDLs.**

**Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.**

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

August 23, 2024

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/21/24 14:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 08/21/2024  
 Reported: 08/23/2024  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 08/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E - 1 ( 1' ) (H245099-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2024	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	08/22/2024	ND	2.04	102	2.00	3.23	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.05	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.09	102	6.00	4.65	
Total BTX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/22/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	209	105	200	9.73	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	202	101	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 08/21/2024  
 Reported: 08/23/2024  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 08/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NE - 1 ( 1' ) (H245099-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.11	106	2.00	2.30		
Toluene*	<0.050	0.050	08/22/2024	ND	2.04	102	2.00	3.23		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.05	103	2.00	4.39		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.09	102	6.00	4.65		
Total BTEx	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/22/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	209	105	200	9.73	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	202	101	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 08/21/2024  
 Reported: 08/23/2024  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 08/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SE - 1 ( 1' ) (H245099-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.11	106	2.00	2.30		
Toluene*	<0.050	0.050	08/22/2024	ND	2.04	102	2.00	3.23		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.05	103	2.00	4.39		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.09	102	6.00	4.65		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/22/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	209	105	200	9.73	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	202	101	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





---

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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



## 11/1

Page 6 of 6



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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February 11, 2025

BRUCE BAKER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A7 - W - SW 0-2 (H250800-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A7 - FS 2 (H250800-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

February 11, 2025

BRUCE BAKER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

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Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A1 - W - SW 0-4 (H250801-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	1.82	90.9	2.00	5.81		
Toluene*	<0.050	0.050	02/10/2025	ND	1.88	94.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	1.79	89.3	2.00	5.68		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	5.25	87.5	6.00	5.61		
Total BTEX	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A1, B1 - S - SW 0-4 (H250801-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	1.82	90.9	2.00	5.81	
Toluene*	<0.050	0.050	02/10/2025	ND	1.88	94.1	2.00	5.75	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	1.79	89.3	2.00	5.68	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	5.25	87.5	6.00	5.61	
Total BTX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A1, B1 FS 4 (H250801-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	1.82	90.9	2.00	5.81		
Toluene*	<0.050	0.050	02/10/2025	ND	1.88	94.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	1.79	89.3	2.00	5.68		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	5.25	87.5	6.00	5.61		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

February 11, 2025

BRUCE BAKER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 12, B 13 - W - SW 0-4 (H250798-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTEX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 12, FS 4 (H250798-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTX	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: C12, C13 - E - SW 0-4 (H250798-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTEX	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: C13 - FS 4 (H250798-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

**(575) 393-2326 FAX (575) 393-2476**

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

February 11, 2025

BRUCE BAKER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A4, A6, - W - SW 0-4 (H250799-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTEX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A4 - FS 5 (H250799-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTEx	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A6 - FS 5 (H250799-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST


[illegible]

Closure Documentation  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No.  
KH227025




## **APPENDIX B**

C-141 Summary Sheet

May 16, 2024						
<b>NMOCD REPORT DETAILS</b>						
<b>Submission Contact, Application, Fee and Payment Details</b>						
<b>Name:</b>	Kathy Purvis					
<b>Email:</b>	katherine.purvis@spurenergy.com					
<b>Phone:</b>	(575) 441-8619					
<b>Initial Release C-141</b>						
<b>Application Details</b>						
<b>Incident ID:</b>	nAPP2232679528					
<b>District:</b>	Artesia					
<b>County:</b>	Eddy					
<b>Legal Description:</b>	Unit: J	Section: 17	Township: 17S	Range: 29E		
<b>Lat/Long:</b>	N: 32.83371°		E: -104.09593°			
<b>Prerequisites</b>						
<b>Incident Operator:</b>	Spur Energy Partners LLP					
<b>Release Type:</b>	Crude Oil					
<b>Incident Status:</b>	Pending Submission of Closure Report					
<b>Release Information</b>						
<b>Site Name:</b>	Folk State 11 Battery					
<b>Date Discovered:</b>	11/22/2022		(MM/DD/YYYY)			
<b>Surface Owner:</b>	Private					
<b>Incident Details</b>						
<b>Incident Type:</b>	Oil Release					
<b>Fire:</b>	No					
<b>Injuries:</b>	No					
<b>Watercourse:</b>	No					
<b>Public Health:</b>	No					
<b>Significant to Property or Environment:</b>	No					
<b>Detrimental to Freshwater:</b>	No					
<b>Nature and Volume of Release</b>						
<b>Released Product:</b>	Crude Oil					
<b>Cause:</b>	Equipment Failure					
<b>Source:</b>	Fitting					
<b>Release:</b>	27	(bbls/Mcf)				
<b>Recovered:</b>	25	(bbls/Mcf)				
<b>Additional Details:</b>	Crude Oil					
<b>Nature and Volume of Release</b>						
<b>Is this a gas submission?</b>	No					
<b>Was this a major release (Y/N) &gt;25bbls?</b>	Yes					
<b>Justification of release volume calculation:</b>	No					
<b>Initial Response</b>						
<b>Release has been stopped?</b>	Yes					
<b>Release area has been secured?</b>	Yes					
<b>Released material has been contained?</b>	Yes					
<b>All free liquids have been recovered?</b>	Yes					
<b>If actions have not been completed, why?</b>	Yes		(Attached Explanation)			
<b>Remediation Action Plan C-141</b>						
<b>Site Characterization</b>						
<b>Depth to groundwater beneath effected area?</b>	75ft - 100ft					
<b>What method was used to determine depth?</b>	Attached Document					
<b>Did release impact GW or Surface Water?</b>	No					
<b>Continuously flowing watercourse?</b>	greater than 5 (mi.)					
<b>Lakebed, sinkhole, or playa (measured from the high-water mark)?</b>	between 1 to 5 (mi.)					
<b>An occupied permanent residence?</b>	greater than 5 (mi.)					
<b>Spring or private domestic well?</b>	between 1 to 5 (mi.)					
<b>Incorporated municipal boundaries?</b>	greater than 5 (mi.)					
<b>Wetland?</b>	between 1 to 5 (mi.)					
<b>Subsurface mine?</b>	greater than 5 (mi.)					
<b>A (non-karst) unstable area?</b>	greater than 5 (mi.)					
<b>Categorize the risk of this well / site being in a karst geology?</b>	Medium					
<b>A 100-year floodplain?</b>	between 1 to 5 (mi.)					
<b>Did the release impact areas not on an exploration, development, production, or storage site?</b>	No					



May 16, 2024			
<b>Remediation Plan</b>			
Have lateral and vertical extents of impacts been delineated, to the strictest standards?	Yes		
Was the release entirely contained within a lined containment?	Yes		
Soil Contamination Sampling. (provide the highest observed value for each)(0.1)	Chloride	672 (mg/kg)	
	Total TPH	4,840 (mg/kg)	
	GRO+DRO	4,840 (mg/kg)	
	BTEX	1.08 (mg/kg)	
	Benzene	0.08 (mg/kg)	
Date of Remediation Commencement.	10/9/2023		
Date of Final Sampling or Liner Inspection.	2/23/2024		
Date of Remediation Completion.	2/23/2024		
Estimated Surface Area (sq. ft.) to be reclaimed.	760		
Estimated Volume (cu. yds.) to be reclaimed.	146		
Estimated Surface Area (sq. ft.) to be remediated.	2000		
Estimated Volume (cu. yds.) to be remediated.	450		
Excavation and off-site disposal (dig & haul).	Yes	(Ex-Situ)	
Excavation and on-site remediation (land farm).	No	(Ex-Situ)	
Soil Vapor Extraction.	No	(In-Situ)	
Chemical processing (soil shredding...etc).	No	(In-Situ)	
Biological processing (microbes / fertilizer...etc).	No	(In-Situ)	
Physical processing (soil washing, gypsum...etc).	No	(In-Situ)	
Ground Water Abatement.	No		
Other (Non-listed remedial process).	No		
<b>Closure/Deferral Request C-141</b>			
Deferral Request (attachment with explanation)	Yes		
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	Yes		
Total Surface Area (sq. ft.) to be remediated.	2000	(Square Feet)	
Total Volume (cu. yds.) to be remediated.	450	(Cubic Yards)	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.	Yes		
Estimated Surface Area (sq. ft.) to be reclaimed.	2000	(Square Feet)	
Estimated Volume (cu. yds.) to be reclaimed.	450	(Cubic Yards)	
Attached Summary of Additional Remediation Activities.	Yes		
Requesting Approval of Reclamation Completion.	No		



4518 W. Pierce St.

Carlsbad NM, 88220

February 13, 2025  
Spur Energy Partners LLC  
2407 Pecos Avenue  
Artesia NM, 88210

Attn: New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico, NM 87505

RE: **Release Investigation, and Deferral Request**  
Folk State 11 Battery  
Unit J, Section 17, Township 17 South, Range 29 East  
32.83371 °, -104.09593°  
Eddy County, New Mexico  
NMOCD No. nAPP2232679528  
Terracon Project No. KH227025

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is submitting our Release Investigation and Closure Report for the above-referenced site. Prepared in line with New Mexico Oil Conservation Division (NMOCD) regulations, this report addresses the environmental actions taken in response to the release of crude oil at the above oil production site. Detailed assessment and remedial actions by Terracon are outlined in the following sections.

## Action Items

### Completed Actions

- 1) The release assessment activities for incident nAPP2232679528 were executed between October 9, 2023, through February 23, 2024. Depth to water was found to be greater than 78 feet below ground surface.
- 2) Maps and associated data for approval are provided within Appendix A and B.
- 3) Soil samples collected from the excavation were submitted to an approved laboratory for analysis to determine levels of impact vertically and horizontally.
- 4) Excavation of the inferred release area was completed with the intent to remove impacted soil as determined by the Closure Criteria set by NMOCD. Areas exhibiting visual staining and areas that exceeded field screening were excavated.
- 5) Soil stockpiles on site were placed on plastic and bermed around the edges to reduce loss.
- 6) Five-point composite confirmation samples were collected every 200 square feet.
- 7) Remedial activities were terminated when a confirmation sample was collected below the NMOCD RALs for Oil and Gas impacted soils.

Explore with us



- 
- 8) A summary of the information provided in this report is included in Appendix A, as C-141 summary sheet.
- 

### **Deferral Request**

---

- 1) Terracon is seeking a deferral to leave the affected soil within the requested 10-foot buffer estimated at 2,000 square feet / 450 cubic yards set by Spur around the storage tank and pipelines within the containment in the release area. The safety concerns of weakening the structural integrity of the production equipment within the battery with mechanical or hydro excavation techniques may cause damage to the tanks and pipelines increasing the potential of future leaks. Vertical delineation of the requested deferral area was conducted. While attempting to vertically delineate the deferral area, at sample location Tank 4-E Terracon encountered refusal at 9.5 feet bgs and were unable to safely utilize additional mechanical methods to continue sampling. Please see Appendix A, Exhibit 8.
- 

### **Anticipated Actions**

---

- 2) Approval by the NMOCD.
- 3) The areas of the excavation were backfilled and brought to the surrounding grade.
- 

### **Site Information**

On April 14, 2023, Terracon was requested by Spur Energy Partners LLC (Spur) to conduct a Release Investigation, in association with a release of a reportable quantity of crude oil within the southern half of the secondary containment at the Folk State 11 Battery (nAPP2232679528) site. The New Mexico Oil Conservation District (NMOCD) was notified of the release on November 22, 2022, according to the submitted C-141 form. Terracon personnel were informed that a reportable release of 27 barrels (bbls) of crude oil within secondary containment had taken place at the site and Spur had recovered a total of 25 bbls. Surface ownership is held by the New Mexico State Land Office (SLO). A Topographic Map and Site Location Map are included as Appendix A, Exhibit 1 and Exhibit 2, respectively.

Terracon conducted delineation sampling and remedial actions at the site from October 9, 2023, through February 23, 2024. This Deferral Request seeks to confirm the confirmation and delineation sampling for approval of the NMOCD.

### **Regulatory Criteria**

A review of data from the New Mexico Office of the State Engineer (NMOSE) website identified a water well (EXPL Well) located 0.10 miles west of the site as indicated in the Exploratory Boring Location Map (Appendix A, Exhibit 3). The exploratory groundwater well was completed to a depth of 78 feet below ground surface (bgs) on May 10, 2020. The borehole was left open for 48 hours, gauged, and was determined to be a dry hole, indicating depth to water is >78 feet bgs. A review of the U.S. Fish and Wildlife Service, National Wetlands Inventory

Closure Documentation  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



website indicates that the Pecos River is located approximately 14.2 miles southwest of the site as indicated in the Designated Wetland Area Map (Appendix A, Exhibit 4). Review of geospatial data obtained from the BLM Carlsbad Field Office website indicated that the site is within an area of medium risk for Karst formations, as indicated in the Cave Karst Public UCP Map (Appendix A, Exhibit 5,).

### **Reclamation Standards**

Per New Mexico Administrative Code (NMAC) 19.15.29, the closure criteria for the site are based on the remedial requirements for an on-pad release consisting of the removal of the affected soil from the surface to 4 feet below grade surface (bgs). The closure criteria are for Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX) (50 mg/kg) (EPA Method 8021B), Benzene (10 mg/kg) (EPA Method 8021B), Chlorides (10,000 mg/kg) EPA Method 300), and Total Petroleum Hydrocarbons (Total TPH) (2,500 mg/kg) (EPA Method 8015M), GRO (C6-C10) (1,000 mg kg), and DRO (1,000 mg/kg) (EPA Method 8015M).

### **Release Assessment/Confirmation/Closure Activities**

#### ***Incident nAPP2232679528***

Terracon conducted remedial activities at the site from October 9, 2023, through February 23, 2024. Three areas on the southern half of the containment totaling approximately 760 square feet were affected by the release. A total of 9 delineation samples from 8 hand auger boring locations (Tank 1-W, Tank 2-W, Tank4-W, Tank 5-W, Tank 3-E, Tank 5-N and Exc-12) were collected and submitted for analysis of BTEX, Chlorides, and TPH. Delineation sample results for BTEX were below applicable NMOCD closure criteria. One delineation sample exceeded closure criteria for TPH at 4,840 mg/kg in Tank 4-E (6.0'). On February 23, 2024, to further delineate the vertical extent of impact at the Tank 4-E location, Terracon advanced a hand auger boring to depth of 9.5 feet bgs where refusal was encountered and sample Tank 4-E (9.5 ') was collected and submitted for analysis of BTEX, Chloride and TPH. The sample results for TPH for Tank 4-E (9.5') were below applicable NMOCD closure criteria. A Delineation Sample Location Map depicting the sample locations, analytical results for BTEX, Chlorides and TPH, is included in Appendix A, Exhibit 6. Delineation sample results are included in Appendix B, Table 3.

Areas exhibiting visual impact and the areas that exceeded the closure criteria were excavated to a depth of between 2.0 feet to 5 feet bgs. A total of 12 confirmation soil samples were collected from October 18, 23, & 31, in 2023. Final confirmation sample were then collected February 10, 2025, and submitted for analysis of BTEX, Chlorides, and TPH. Confirmation floor and walls sample results for BTEX, Chloride and TPH were below applicable NMOCD closure criteria. A Confirmation Sample Location Map is included in Appendix A, Exhibit 7. Confirmation sample results for the floor and sidewalls of the excavation are included in Appendix B, Table 1, and Table 2, respectively.



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Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



A total of approximately 146 cubic yards of affected soil were excavated during remedial activities. Excavated material was stockpiled on-site atop a polyethylene liner pending disposal. The excavated material was disposed of at Lea Land Disposal Facility. The excavations were backfilled with imported fill material. Photographs of the project site are included in Appendix C.

### **Deferral Request**

In compliance with Spur's safety protocol associated with excavating around storage tanks and pipelines within the containment, and to mitigate the potential weakening of the structural integrity of the production equipment within the battery associated with excavating adjacent to the equipment, Spur is requesting a 10-foot buffer zone around the storage tank and pipelines within the containment in the release area estimated at 2,000 square feet / 450 cubic yards. To delineate the 10-foot buffer zone area, Terracon advanced eight hand auger borings within the deferral area to depths ranging from 2.0 feet to 9.5 feet bgs. A total of eight delineation soil samples were collected from October 12 through October 23, 2023, and submitted for analysis of BTEX, Chlorides, and TPH. The sample results for BTEX were below applicable NMOCD closure criteria. Sample results from seven of the eight samples for BTEX, Chlorides and TPH were below applicable NMOCD closure criteria. One delineation sample exceeded the closure criteria for Chloride and TPH on sample Tank 4-E (6.0') at 672 mg/kg and 4,840 mg/kg, respectively. To further delineate the vertical extent of impact at the Tank 4-E location, Terracon advanced a hand auger boring on February 12, 2024, to a terminus depth of 9.5 feet bgs where refusal was encountered and sample Tank 4-E (9.5') was collected and submitted for analysis of BTEX, Chloride and TPH. The sample results for Tank 4-E (9.5') for BTEX and TPH were below applicable NMOCD closure criteria. The sample result for Tank 4-E (9.5') exceeded the closure criteria for Chloride at 656 mg/kg. A Deferral Zone Sample Location Map is included in Appendix A, Exhibit 8, and sample results for the deferral zone are included in Appendix B, Table 3.

### **Conclusion**

In accordance with NMAC 19.15.29, remediation of the impacted material is complete outside of the requested deferral buffer zone and the delineation requirements for a request for the deferral have been met. Spur Energy Partners LLC respectfully requests deferral of reportable incident NMOCD Reference # nAPP2232679528 -Folk State 11 Battery.

We are grateful for the opportunity to offer our environmental services to Spur Energy Partners LLC. We are committed to providing the highest level of service and support. Should you need further information or have any queries, Terracon encourage you to reach out to our office at your earliest convenience.

Sincerely,



Closure Documentation  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



Prepared by:

Reviewed by:

**Travis Casey**  
Senior Staff Scientist  
Carlsbad, NM

**John Grams, P.G. (TX)**  
Senior Geologist  
Lubbock, TX

### **Attachments:**

#### **Appendix A – Exhibits**

Exhibit 1 – Topographic Map  
Exhibit 2 – Site Location Map  
Exhibit 3 – Exploratory Boring Location Map  
Exhibit 4 – Designated Wetland Map  
Exhibit 5 – Cave Karst Public UCP Map  
Exhibit 6 – Delineation Sample Location Map  
Exhibit 7 – Confirmation Sample Location Map  
Exhibit 8 – Deferral Area Sample Location Map

#### **C-141 Summary Sheet**

#### **Appendix B – Tables and Well Data**

Table 1 – Confirmation Evaluation Floor Sample Results  
Table 2 – Confirmation Evaluation Wall Sample Results  
Table 3 – Delineation / Deferral Zone Sample Results

#### **Appendix C – Photographic Log**

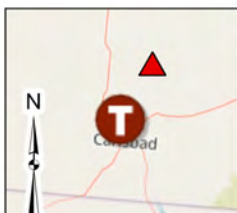
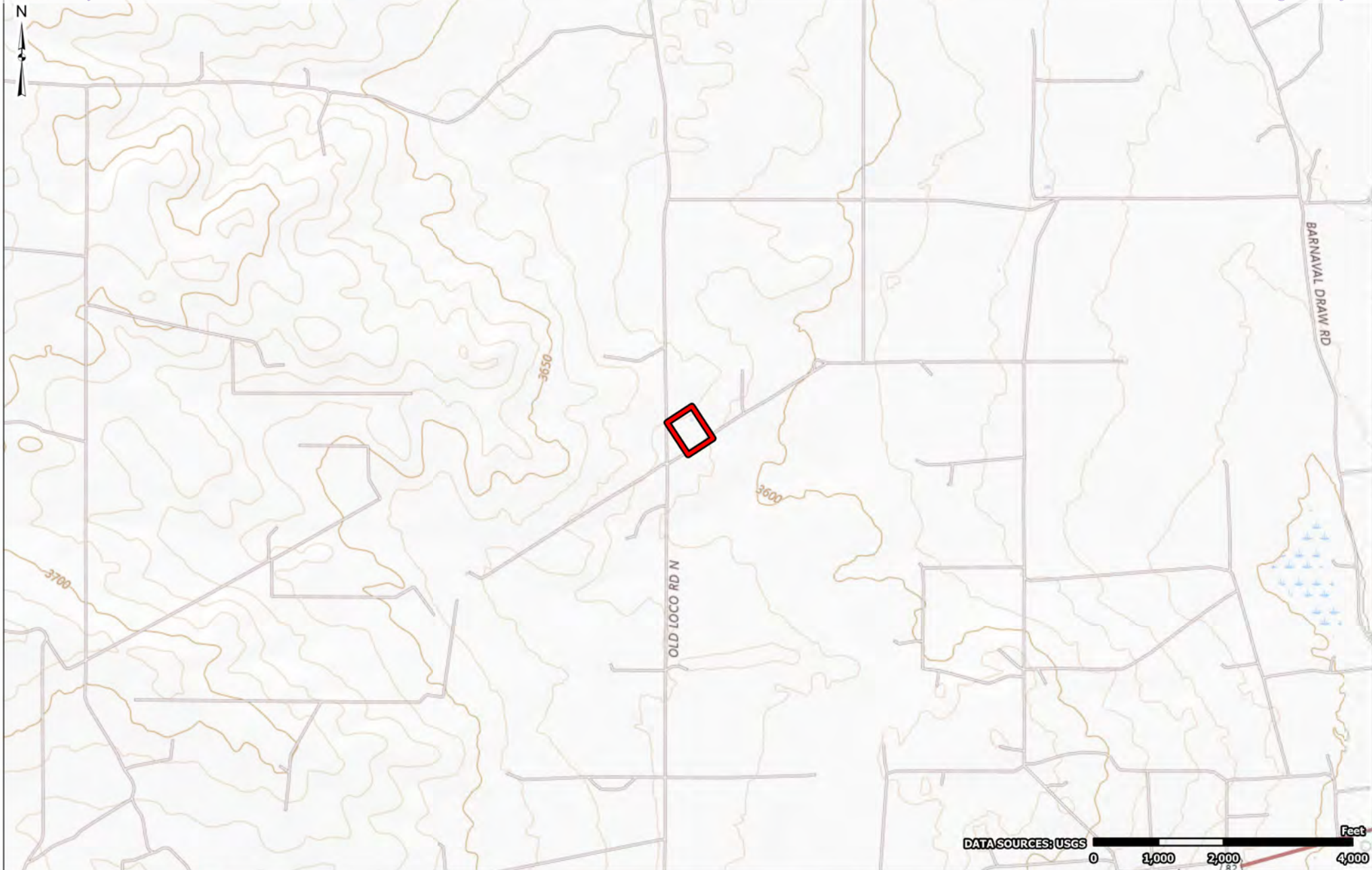
#### **Appendix D – Analytical Report and Chain of Custody**

#### **Appendix E – Terracon Standard of Care, Limitation, & Reliance**

Closure Documentation  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



## **APPENDIX A – EXHIBITS**



 Site Location

Project No.:  
KH227025  
Date:  
May 10 2024  
Drawn By:  
JWL  
Reviewed By:  
JRG

  
4526 W Pierce St  
Carlsbad, NM  
PH. 806-300-0140      terracon.com

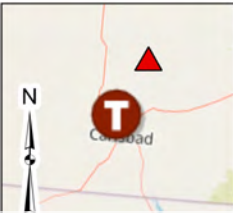
### Topographic Map


Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

### Exhibit


1





 Site Location

Project No.:  
KH227025  
Date:  
May 10 2024  
Drawn By:  
JWL  
Reviewed By:  
JRG



4526 W Pierce St  
Carlsbad, NM  
PH. 806-300-0140      terracon.com

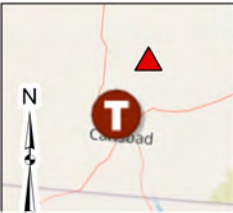
Site Location Map

Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

Exhibit

2






- Site Location
- Exploratory Boring

Project No.:  
KH227025

Date:  
May 10 2024

Drawn By:  
JWL

Reviewed By:  
JRG



4526 W Pierce St  
Carlsbad, NM

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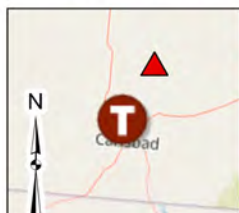
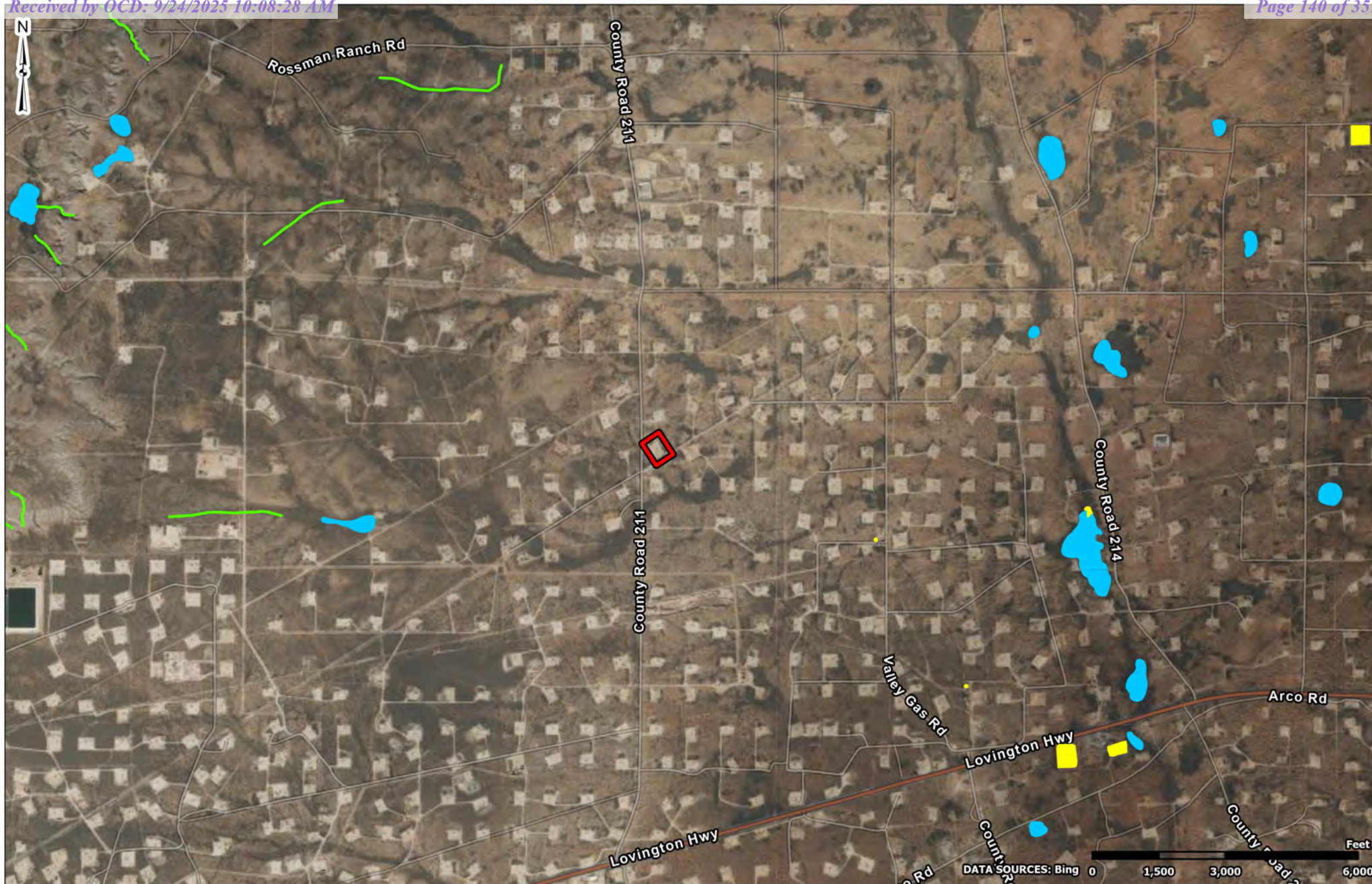
**Exploratory Boring Location Map**

Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

**Exhibit**

**3**





- ▭ Site Location
- ▭ Freshwater Emergent Wetland
- ▭ Freshwater Pond
- ▭ Riverine

Project No.:  
KH227025

Date:  
May 10 2024

Drawn By:  
JWL

Reviewed By:  
JRG

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Carlsbad, NM

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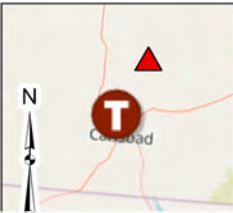
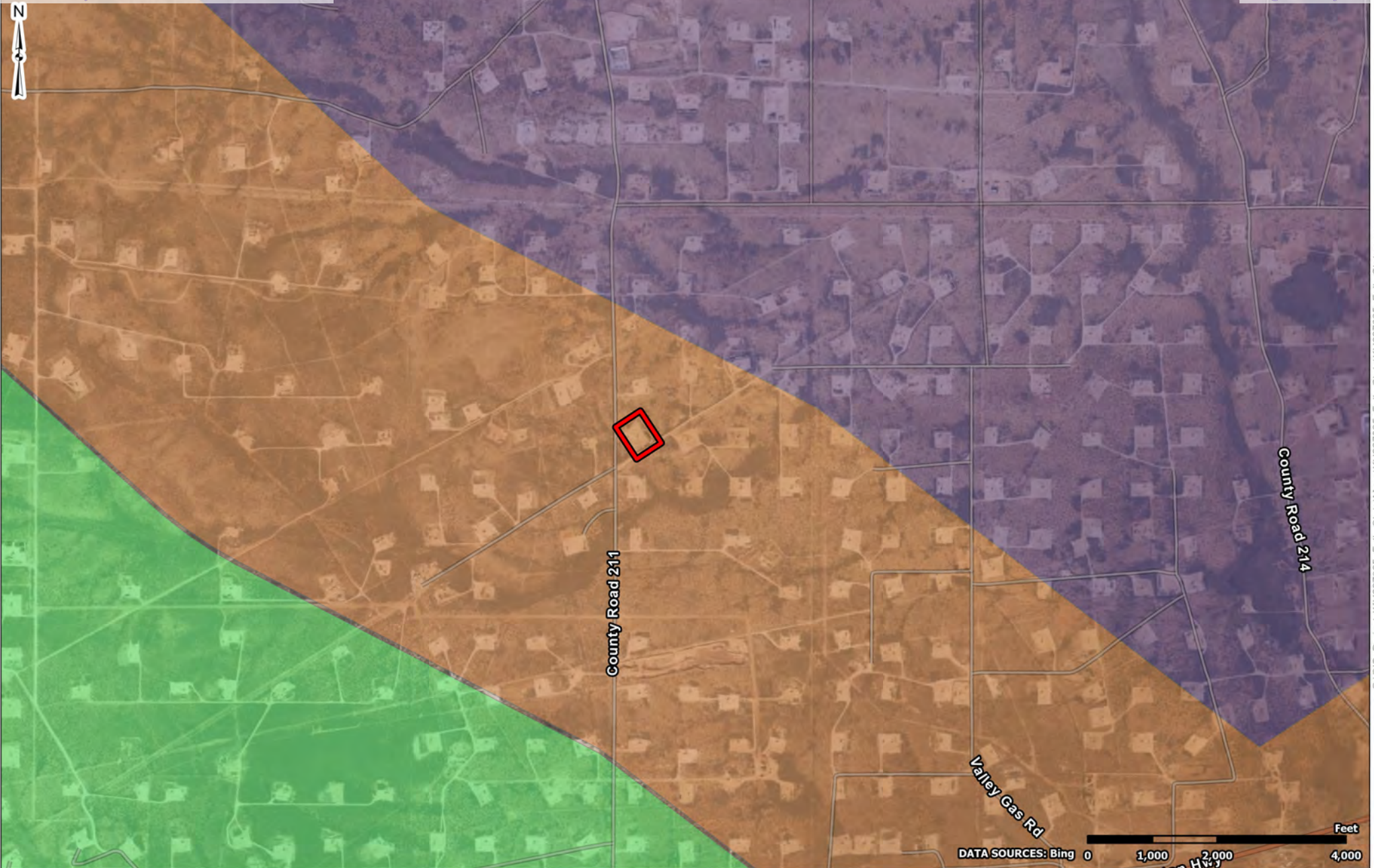
### Designated Wetland Map

Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

### Exhibit

4





- Site Location**
- Karst Potential**
- Low
  - Medium
  - High

Project No.:  
KH227025

Date:  
May 10 2024

Drawn By:  
JWL

Reviewed By:  
JRG

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PH. 806-300-0140      terracon.com

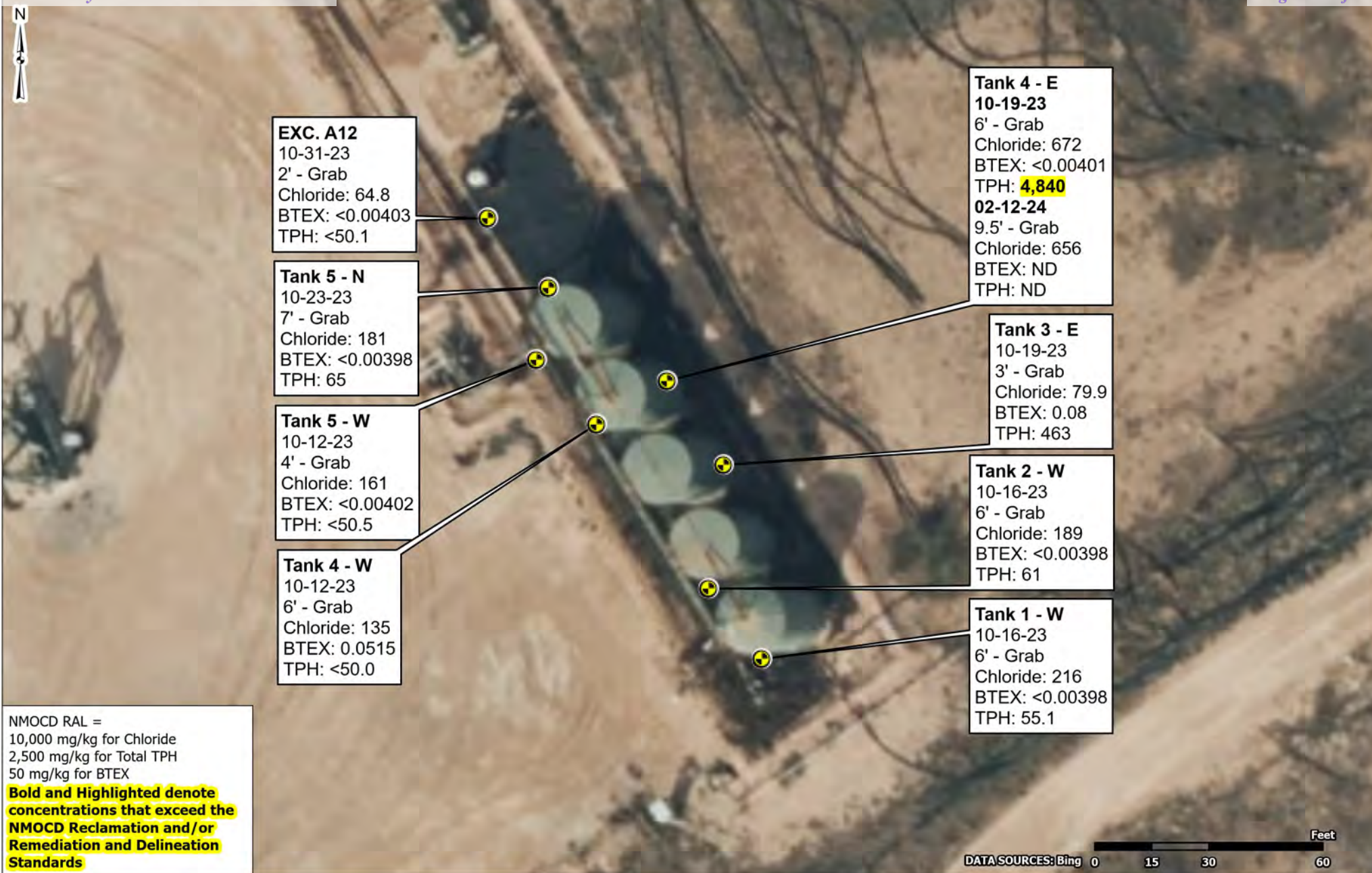
**Cave Karst Public UCP Map**

Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

**Exhibit**

**5**





Hand Auger Location

Project No.:  
KH227025  
Date:  
May 16 2024  
Drawn By:  
JWL  
Reviewed By:  
JRG

**Terracon**  
4526 W Pierce St  
Carlsbad, NM  
PH. 806-300-0140 terracon.com

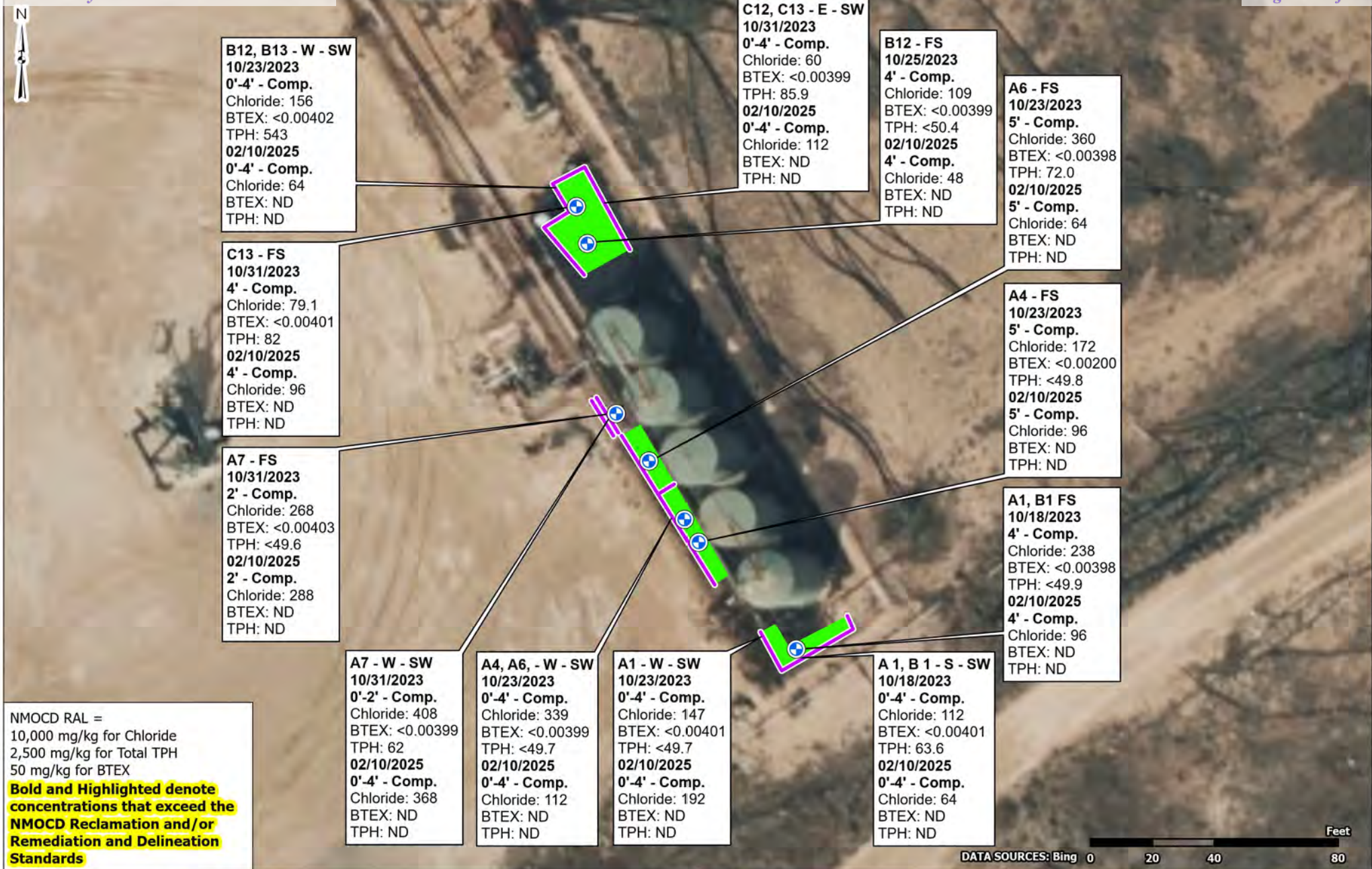
### Delineation Sample Location Map

Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

### Exhibit

6





- Blue Circle: Floor Sample
- Pink Line: Wall Sample
- Green Rectangle: Excavation

Project No.:  
KH227025

Date:  
Feb 12 2025

Drawn By:  
JWL

Reviewed By:  
JRG

**Terracon**

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Carlsbad, NM

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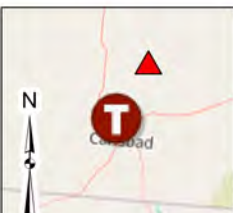
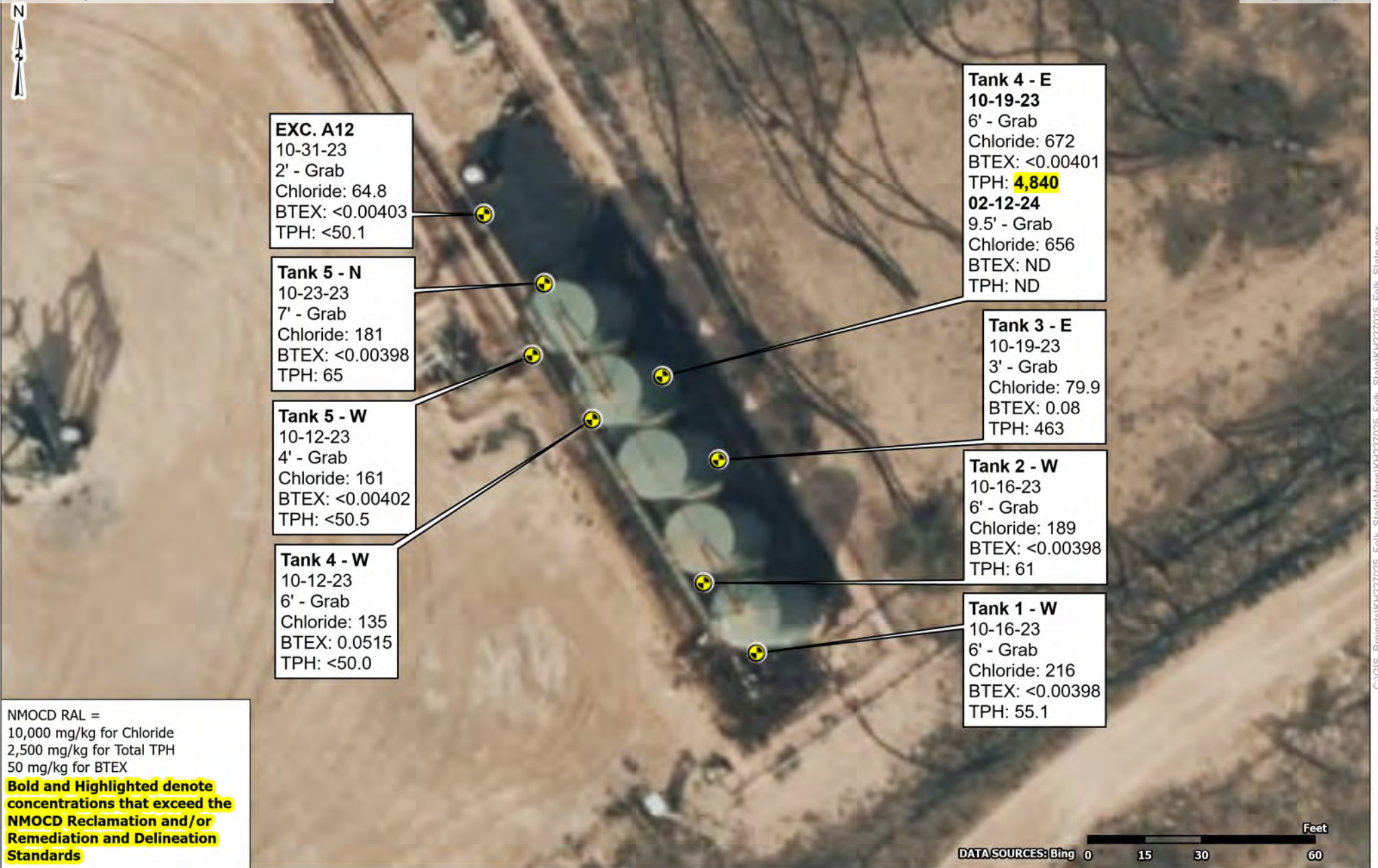
### Confirmation Sample Map

Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

### Exhibit

7





Hand Auger Location

Project No.:  
KH227025  
Date:  
May 16 2024  
Drawn By:  
JWL  
Reviewed By:  
JRG

**Terracon**  
4526 W Pierce St  
Carlsbad, NM  
PH. 806-300-0140 terracon.com

### Deferral Sample Map


Folk State 11 Battery  
Eddy County, New Mexico  
32.8336551° -104.0954615°

### Exhibit

8

May 16, 2024						
<b>NMOCD REPORT DETAILS</b>						
<b>Submission Contact, Application, Fee and Payment Details</b>						
<b>Name:</b>	Kathy Purvis					
<b>Email:</b>	katherine.purvis@spurenergy.com					
<b>Phone:</b>	(575) 441-8619					
<b>Initial Release C-141</b>						
<b>Application Details</b>						
<b>Incident ID:</b>	nAPP2232679528					
<b>District:</b>	Artesia					
<b>County:</b>	Eddy					
<b>Legal Description:</b>	Unit: J	Section: 17	Township: 17S	Range: 29E		
<b>Lat/Long:</b>	N: 32.83371°		E: -104.09593°			
<b>Prerequisites</b>						
<b>Incident Operator:</b>	Spur Energy Partners LLP					
<b>Release Type:</b>	Crude Oil					
<b>Incident Status:</b>	Pending Submission of Closure Report					
<b>Release Information</b>						
<b>Site Name:</b>	Folk State 11 Battery					
<b>Date Discovered:</b>	11/22/2022		(MM/DD/YYYY)			
<b>Surface Owner:</b>	Private					
<b>Incident Details</b>						
<b>Incident Type:</b>	Oil Release					
<b>Fire:</b>	No					
<b>Injuries:</b>	No					
<b>Watercourse:</b>	No					
<b>Public Health:</b>	No					
<b>Significant to Property or Environment:</b>	No					
<b>Detrimental to Freshwater:</b>	No					
<b>Nature and Volume of Release</b>						
<b>Released Product:</b>	Crude Oil					
<b>Cause:</b>	Equipment Failure					
<b>Source:</b>	Fitting					
<b>Release:</b>	27	(bbls/Mcf)				
<b>Recovered:</b>	25	(bbls/Mcf)				
<b>Additional Details:</b>	Crude Oil					
<b>Nature and Volume of Release</b>						
<b>Is this a gas submission?</b>	No					
<b>Was this a major release (Y/N) &gt;25bbls?</b>	Yes					
<b>Justification of release volume calculation:</b>	No					
<b>Initial Response</b>						
<b>Release has been stopped?</b>	Yes					
<b>Release area has been secured?</b>	Yes					
<b>Released material has been contained?</b>	Yes					
<b>All free liquids have been recovered?</b>	Yes					
<b>If actions have not been completed, why?</b>	Yes		(Attached Explanation)			
<b>Remediation Action Plan C-141</b>						
<b>Site Characterization</b>						
<b>Depth to groundwater beneath effected area?</b>	75ft - 100ft					
<b>What method was used to determine depth?</b>	Attached Document					
<b>Did release impact GW or Surface Water?</b>	No					
<b>Continuously flowing watercourse?</b>	greater than 5 (mi.)					
<b>Lakebed, sinkhole, or playa (measured from the high-water mark)?</b>	between 1 to 5 (mi.)					
<b>An occupied permanent residence?</b>	greater than 5 (mi.)					
<b>Spring or private domestic well?</b>	between 1 to 5 (mi.)					
<b>Incorporated municipal boundaries?</b>	greater than 5 (mi.)					
<b>Wetland?</b>	between 1 to 5 (mi.)					
<b>Subsurface mine?</b>	greater than 5 (mi.)					
<b>A (non-karst) unstable area?</b>	greater than 5 (mi.)					
<b>Categorize the risk of this well / site being in a karst geology?</b>	Medium					
<b>A 100-year floodplain?</b>	between 1 to 5 (mi.)					
<b>Did the release impact areas not on an exploration, development, production, or storage site?</b>	No					



May 16, 2024			
<b>Remediation Plan</b>			
Have lateral and vertical extents of impacts been delineated, to the strictest standards?	Yes		
Was the release entirely contained within a lined containment?	Yes		
Soil Contamination Sampling. (provide the highest observed value for each)(0.1)	Chloride	672 (mg/kg)	
	Total TPH	4,840 (mg/kg)	
	GRO+DRO	4,840 (mg/kg)	
	BTEX	1.08 (mg/kg)	
	Benzene	0.08 (mg/kg)	
Date of Remediation Commencement.	10/9/2023		
Date of Final Sampling or Liner Inspection.	2/23/2024		
Date of Remediation Completion.	2/23/2024		
Estimated Surface Area (sq. ft.) to be reclaimed.	760		
Estimated Volume (cu. yds.) to be reclaimed.	146		
Estimated Surface Area (sq. ft.) to be remediated.	2000		
Estimated Volume (cu. yds.) to be remediated.	450		
Excavation and off-site disposal (dig & haul).	Yes	(Ex-Situ)	
Excavation and on-site remediation (land farm).	No	(Ex-Situ)	
Soil Vapor Extraction.	No	(In-Situ)	
Chemical processing (soil shredding...etc).	No	(In-Situ)	
Biological processing (microbes / fertilizer...etc).	No	(In-Situ)	
Physical processing (soil washing, gypsum...etc).	No	(In-Situ)	
Ground Water Abatement.	No		
Other (Non-listed remedial process).	No		
<b>Closure/Deferral Request C-141</b>			
Deferral Request (attachment with explanation)	Yes		
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	Yes		
Total Surface Area (sq. ft.) to be remediated.	2000	(Square Feet)	
Total Volume (cu. yds.) to be remediated.	450	(Cubic Yards)	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.	Yes		
Estimated Surface Area (sq. ft.) to be reclaimed.	2000	(Square Feet)	
Estimated Volume (cu. yds.) to be reclaimed.	450	(Cubic Yards)	
Attached Summary of Additional Remediation Activities.	Yes		
Requesting Approval of Reclamation Completion.	Yes		

Closure Documentation  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



## **APPENDIX B – TABLES AND WELL DATA**

**Table 1**  
**Soil Analytical Results Summary - Confirmation Evaluation (Floor Samples)**  
**Project Code: KH227025**  
**NMOCD Reference No. nAPP2232679528**

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Floor Samples											
A1, B1 - FS	10/18/2023	4	Composite	In-situ	238	<0.00199	<0.00398	ND	ND	ND	ND
	2/10/2025	4	Composite	In-situ	96	ND	ND	ND	ND	ND	ND
A4 - FS	10/23/2023	5	Composite	In-situ	172	<0.00200	<0.00401	ND	ND	ND	ND
	2/10/2025	5	Composite	In-situ	192	ND	ND	ND	ND	ND	ND
A6 - FS	10/23/2023	5	Composite	In-situ	360	<0.00199	<0.00398	72	ND	72	ND
	2/10/2025	5	Composite	In-situ	64	ND	ND	ND	ND	ND	ND
A7 - FS	10/31/2023	2	Composite	In-situ	268	<0.00202	<0.00403	ND	ND	ND	ND
	2/10/2025	2	Composite	In-situ	288	ND	ND	ND	ND	ND	ND
B12 - FS	10/19/2023	4	Composite	In-situ	47.7	<0.0504	<0.101	120	ND	120	ND
	10/25/2023	4	Composite	In-situ	109	<0.00200	<0.00399	ND	ND	ND	ND
	2/10/2025	4	Composite	In-situ	48	ND	ND	ND	ND	ND	ND
C13 - FS	10/23/2023	4	Composite	In-situ	113	<0.00200	<0.00399	193	ND	193	ND
	10/31/2023	4	Composite	In-situ	79.1	<0.00200	<0.00401	82	ND	82	ND
	2/10/2025	4	Composite	In-situ	32	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards <sup>3</sup>					10,000	10	10	2,500	1,000		N/A
NMOCD Remediation Standards <sup>4</sup>					10,000	10	10	2,500	1,000		N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

**Bold denotes concentrations above applicable laboratory SDLs.**

**Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.**

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

**Table 2**  
**Soil Analytical Results Summary - Confirmation Evaluation (Wall Samples)**  
**Project Code: KH227025**  
**NMOCD Reference No. nAPP2232679528**

Sample ID	Sample Date	Sample Start Depth (ft bgs)	Sample Final Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
						EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Wall Samples												
A1, B1 - S - SW	10/18/2023	0	4	Composite	In-situ	112	<0.00200	<0.00401	63.6	ND	63.6	ND
	2/10/2025	0	4	Composite	In-situ	64	ND	ND	ND	ND	ND	ND
A1 - W - SW	10/23/2023	0	4	Composite	In-situ	147	<0.00200	<0.00401	ND	ND	ND	ND
	2/10/2025	0	4	Composite	In-situ	192	ND	ND	ND	ND	ND	ND
A4,A6 - W - SW	10/23/2023	0	5	Composite	In-situ	339	<0.00200	<0.00399	ND	ND	ND	ND
	2/10/2025	0	4	Composite	In-situ	112	ND	ND	ND	ND	ND	ND
A7 - W - SW	10/18/2023	0	2	Composite	In-situ	125	<0.00202	<0.00403	1310	ND	1310	ND
	10/31/2023	0	2	Composite	In-situ	408	<0.00200	<0.00399	62	ND	62	ND
	2/10/2025	0	2	Composite	In-situ	368	ND	ND	10	ND	10	ND
B12,B13 - W - SW	10/23/2023	0	4	Composite	In-situ	156	<0.00201	<0.00402	543	ND	543	ND
	2/10/2025	0	4	Composite	In-situ	64	ND	ND	ND	ND	ND	ND
C12,C13 - NE - SW	10/23/2023	0	4	Composite	In-situ	90.8	<0.00199	<0.00398	181	ND	181	ND
	10/31/2023	0	4	Composite	In-situ	60	<0.00200	<0.00399	85.9	ND	85.9	ND
C12,C13 - E - SW	2/10/2025	0	4	Composite	In-situ	112	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards <sup>3</sup>						10,000	10	50	2,500		1,000	N/A
NMOCD Remediation Standards <sup>4</sup>						10,000	10	50	2,500		1,000	N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

**Bold denotes concentrations above applicable laboratory SDLs.**

**Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.**

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.



**Table 3**  
**Soil Analytical Results Summary - Delineation / Deferral Zone Samples**  
**Folk State 11 Battery**  
**NMOCD Reference No. nAPP2232679528**

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Deferral Samples											
TANK 1 - W	10/16/23 09:58	6	Grab	In-situ	216	ND	ND	55.1	ND	55.1	ND
TANK 2 - W	10/16/23 15:13	6	Grab	In-situ	189	ND	ND	61	ND	61	ND
TANK 3 - W	10/16/2023	6		Refusal					ND		ND
TANK 4 - W	10/12/23 10:49	6	Grab	In-situ	135	ND	0.00515	ND	ND	ND	ND
TANK 5 - W	10/12/23 12:28	4	Grab	In-situ	161	ND	ND	ND	ND	ND	ND
TANK 1 - E	10/22/2023	6		Refusal					ND		ND
TANK 2 - E	10/22/2023	6		Refusal					ND		ND
TANK 3 - E	10/19/23 15:50	3	Grab	Refusal	79.9	0.08	0.08	463	ND	463	ND
TANK 4 - E	10/19/23 11:16	6	Grab	Refusal	672	ND	ND	4840	ND	4840	ND
	2/23/2024	9.5	Grab	Refusal	656	ND	ND	ND	ND	ND	ND
TANK 5 - N	10/23/23 14:01	7	Grab	In-situ	181	ND	ND	65	ND	65	ND
Exc. A12	10/31/23 14:21	2	Grab	In-situ	64.8	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards <sup>3</sup> (Surface to 4 ft bgs)					10,000	10	10	2,500	1,000		N/A
NMOCD Remediation Standards <sup>4</sup> (Greater than Depths of 4 ft bgs)					10,000	10	10	2,500	1,000		N/A

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

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**Bold denotes concentrations above applicable laboratory SDLs.**

**Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.**

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.



Desert Sand Water Well Services, LLC.

Soil Bore Report

General / Well Info	Customer: ESS/Spur Energy		Phone: 575-390-6397	Date: 5/10/20
	Well Name: Folk State		Location: 32.8336260, -104.0965154	

LOG OF WELL	DEPTH		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER BEARING CAVITIES OR FRACTURES
	FROM	TO		
	0	3	3	TOP SOIL
	3	14	11	CHALECHE
	14	20	6	RED SAND/CLAY
	20	30	10	RED SAND
	30	78	48	ANHYDRITE / RED SNAD / CLAY
				LEFT BORE HOLE OPEN FOR 48 HOURS. UPON RETURNING THE BORE WAS
				STILL DRY AT 78'. PLUGGED BORE HOLE FROM THE BOTTOM UP
				WITH 3/8 HOLE PLUG (BENTONITE CHIP).



# SPUR ENERGY PARTNERS

FOLK STATE #11 BATTERY  
BOREHOLE MAP

## Legend



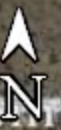
32.8336260 -104.0965154



211

BOREHOLE

Old Loco Rd N



Earth Point

900 ft



# FOLK STATE #11 BATTERY DRILLING PHOTOS







Closure Documentation  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025, | Terracon Project No. KH227025



## **APPENDIX C – PHOTOGRAPHIC LOG**



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



PHOTO 1: View of the signs.



PHOTO 2: View of the signs 2.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 3:** View of the tanks in the battery.



**PHOTO 4:** North facing view of the west side of tanks.

Responsive ■ Resourceful ■ Reliable

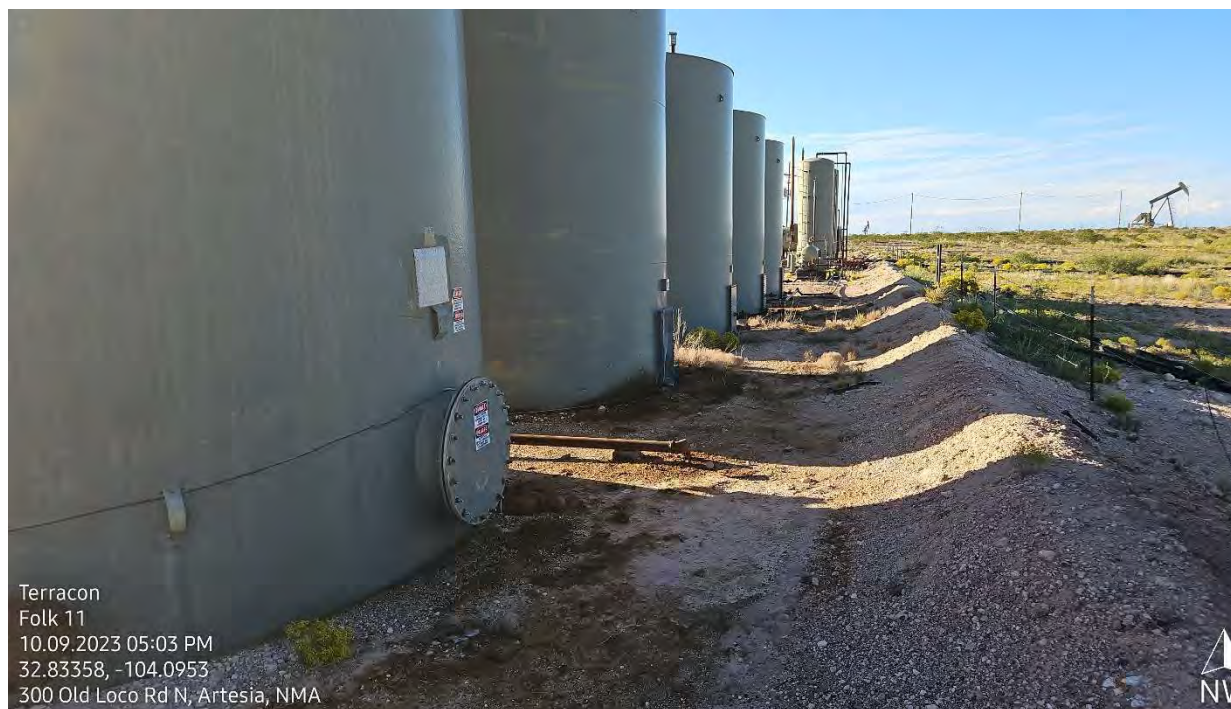


Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



Terracon  
Folk 11  
10.13.2023 08:44 AM  
32.83355, -104.09548  
300 Old Loco Rd N, Artesia, NMA

**PHOTO 5:** North facing view of the west side of tanks where the spill was concentrated.



Terracon  
Folk 11  
10.09.2023 05:03 PM  
32.83358, -104.0953  
300 Old Loco Rd N, Artesia, NMA

**PHOTO 6:** Northwest facing view of open area in the center of the tank battery from the ground.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 7:** Southeast facing view of the West side of the tanks.



**PHOTO 8:** South facing view of the East side of the tanks

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



Terracon  
Folk 11  
10.09.2023 05:04 PM  
32.83377, -104.09559  
300 Old Loco Rd N, Artesia, NMA

**PHOTO 9:** North facing view of the center of the battery north of the tanks.



Terracon  
Folk 11  
10.09.2023 05:04 PM  
32.83379, -104.09563  
300 Old Loco Rd N, Artesia, NMA

**PHOTO 10:** North facing view of the northern tank battery.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 11:** Beginning of excavation South of tanks.



**PHOTO 12:** Continuation of excavation South of tanks.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 13:** Birds eye view of completed excavation South of tanks.



**PHOTO 14:** Birds eye view of completed excavation Southwest of tanks.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 15:** Birds eye view of completed excavation South of tanks.



**PHOTO 16:** Birds eye view of completed excavation Southwest of tanks

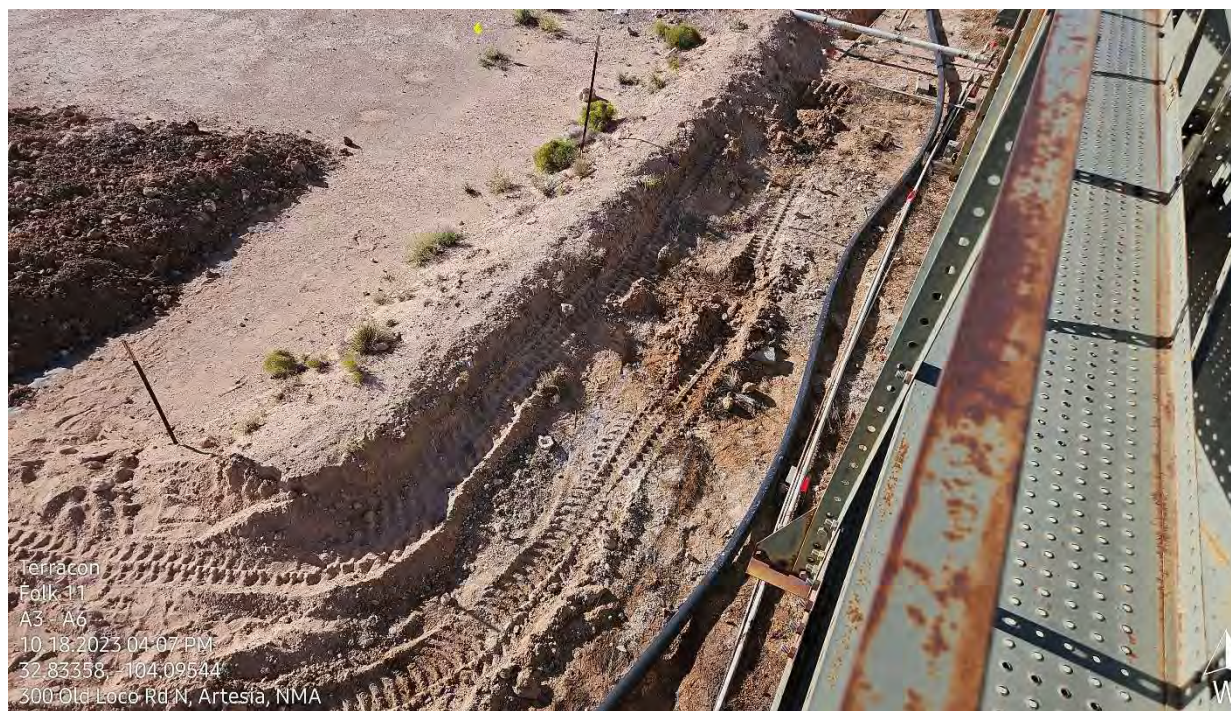
Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 17:** North facing view West side of tanks.



**PHOTO 18:** Birds eye view of the beginning of the West trench.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 19:** Birds eye view of the completed excavation of the West trench 1.



**PHOTO 20:** Birds eye view of the completed excavation of the West trench 2.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 21:** Birds eye view of the backfilled West trench 1.



**PHOTO 22:** Birds eye view of the backfilled West trench 2.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 23:** Birds eye view of the small trench on the West side of tanks.

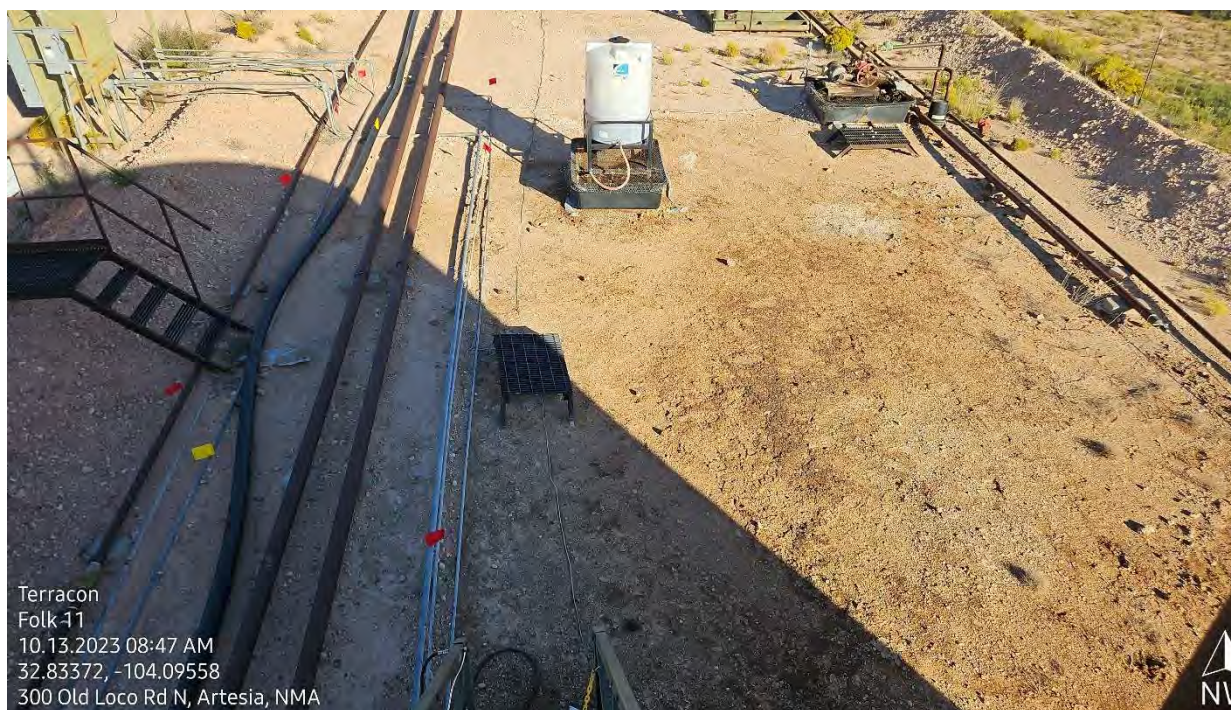


**PHOTO 24:** Birds eye view of the backfilled small trench on the West side of tanks.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 25:** Birds eye view of the area North of the tanks.

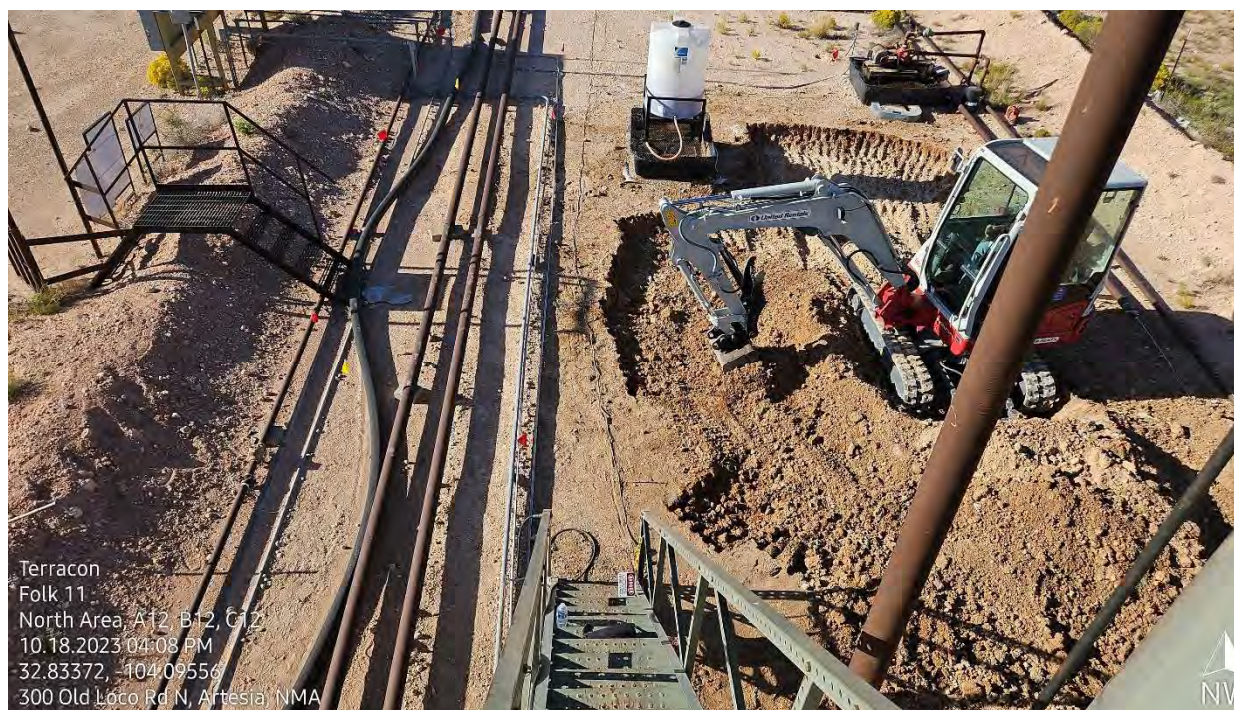


**PHOTO 26:** Northeast facing view of the area North of the tanks.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 27:** Birds eye view of the excavation in progress North of the tanks.



**PHOTO 28:** Birds eye view of the completed excavation North of the tanks.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 29:** Southwest facing view of completed excavation North of the tanks.



**PHOTO 30:** East facing view of completed excavation North of the tanks.

Responsive ■ Resourceful ■ Reliable



Folk 11 ■ Lea County, New Mexico  
November 1, 2023 ■ NMOCD ID: nAPP2232679528



**PHOTO 31:** Birds eye view of the backfilled excavation North of the tanks.



**PHOTO 32:** East facing view of backfilled excavation North of the tanks.

Responsive ■ Resourceful ■ Reliable

Closure Documentation  
Folk State 11 Battery | Eddy County, New Mexico  
February 12, 2025 | Terracon Project No. KH227025



## **APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY**





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Joseph Guesnier  
Terracon Consulting Eng & Scientists  
5847 50th St  
Lubbock, Texas 79424  
Generated 10/20/2023 9:29:04 AM

## JOB DESCRIPTION

Folk 11  
SDG NUMBER KH227025

## JOB NUMBER

890-5469-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
10/20/2023 9:29:04 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

# Eurofins Carlsbad

## Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

### Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).





Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Laboratory Job ID: 890-5469-1  
SDG: KH227025

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## Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**Case Narrative**

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

**Job ID: 890-5469-1**

**Laboratory: Eurofins Carlsbad**

**Narrative****Job Narrative  
890-5469-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**

The samples were received on 10/17/2023 8:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: TANK 1 -W (890-5469-1) and TANK 2 -W (890-5469-2).

**GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-64913 and analytical batch 880-64935 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-65041 and analytical batch 880-65018 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65018/31), (CCV 880-65018/47) and (CCV 880-65018/58). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (890-5474-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: TANK 1 -W (890-5469-1) and TANK 2 -W (890-5469-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-65041 and analytical batch 880-65018 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-65041 and analytical batch 880-65018. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65038 and 880-65038



Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

Job ID: 890-5469-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

and analytical batch 880-65042 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: TANK 2 -W (890-5469-2), (890-5474-A-10-A), (890-5474-A-10-B MS) and (890-5474-A-10-C MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

## Client Sample ID: TANK 1 -W

Lab Sample ID: 890-5469-1

Date Collected: 10/16/23 09:58

Matrix: Solid

Date Received: 10/17/23 08:27

Sample Depth: 6

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 13:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/23 11:00	10/18/23 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	10/18/23 11:00	10/18/23 13:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130	10/18/23 11:00	10/18/23 13:48	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/18/23 13:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.1		50.2		mg/Kg			10/20/23 03:14	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		10/19/23 12:14	10/20/23 03:14	1
Diesel Range Organics (Over C10-C28)	55.1		50.2		mg/Kg		10/19/23 12:14	10/20/23 03:14	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		10/19/23 12:14	10/20/23 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	10/19/23 12:14	10/20/23 03:14	1
o-Terphenyl	115		70 - 130	10/19/23 12:14	10/20/23 03:14	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216		4.99		mg/Kg			10/19/23 19:02	1

## Client Sample ID: TANK 2 -W

Lab Sample ID: 890-5469-2

Date Collected: 10/16/23 15:13

Matrix: Solid

Date Received: 10/17/23 08:27

Sample Depth: 6

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/23 11:00	10/18/23 14:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/23 11:00	10/18/23 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/18/23 11:00	10/18/23 14:08	1

Eurofins Carlsbad

## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

Client Sample ID: TANK 2 -W

Lab Sample ID: 890-5469-2

Date Collected: 10/16/23 15:13

Matrix: Solid

Date Received: 10/17/23 08:27

Sample Depth: 6

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	10/18/23 11:00	10/18/23 14:08	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/18/23 14:08	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.0		49.6		mg/Kg			10/20/23 03:36	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/19/23 12:14	10/20/23 03:36	1
Diesel Range Organics (Over C10-C28)	61.0		49.6		mg/Kg		10/19/23 12:14	10/20/23 03:36	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/19/23 12:14	10/20/23 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				10/19/23 12:14	10/20/23 03:36	1
o-Terphenyl	119		70 - 130				10/19/23 12:14	10/20/23 03:36	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		4.96		mg/Kg			10/19/23 19:07	1



## Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-34579-A-1-B MS	Matrix Spike	99	110
880-34579-A-1-C MSD	Matrix Spike Duplicate	105	118
890-5469-1	TANK 1 -W	92	106
890-5469-2	TANK 2 -W	96	101
LCS 880-64913/1-A	Lab Control Sample	97	108
LCSD 880-64913/2-A	Lab Control Sample Dup	97	112
MB 880-64913/5-B	Method Blank	113	141 S1+
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5469-1	TANK 1 -W	135 S1+	115
890-5469-2	TANK 2 -W	138 S1+	119
890-5474-A-1-E MS	Matrix Spike	129	90
890-5474-A-1-F MSD	Matrix Spike Duplicate	120	94
LCS 880-65041/2-A	Lab Control Sample	92	87
LCSD 880-65041/3-A	Lab Control Sample Dup	83	74
MB 880-65041/1-A	Method Blank	198 S1+	168 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64913/5-B

Matrix: Solid

Analysis Batch: 64935

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/23 09:25	10/18/23 12:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/23 09:25	10/18/23 12:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/18/23 09:25	10/18/23 12:15	1
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130	10/18/23 09:25	10/18/23 12:15	1

Lab Sample ID: LCS 880-64913/1-A

Matrix: Solid

Analysis Batch: 64935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1083		mg/Kg		108	70 - 130
Toluene	0.100	0.09634		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09209		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.2067		mg/Kg		103	70 - 130
o-Xylene	0.100	0.09873		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-64913/2-A

Matrix: Solid

Analysis Batch: 64935

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64913

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1135		mg/Kg		114	70 - 130	5	35
Toluene	0.100	0.09325		mg/Kg		93	70 - 130	3	35
Ethylbenzene	0.100	0.08243		mg/Kg		82	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2035		mg/Kg		102	70 - 130	2	35
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-34579-A-1-B MS

Matrix: Solid

Analysis Batch: 64935

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0998	0.1074		mg/Kg		108	70 - 130
Toluene	<0.00198	U	0.0998	0.08975		mg/Kg		90	70 - 130

Eurofins Carlsbad

## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-34579-A-1-B MS

Matrix: Solid

Analysis Batch: 64935

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0998	0.09101		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2047		mg/Kg		103	70 - 130
o-Xylene	<0.00198	U	0.0998	0.09593		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-34579-A-1-C MSD

Matrix: Solid

Analysis Batch: 64935

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1053		mg/Kg		105	70 - 130	2	35
Toluene	<0.00198	U	0.100	0.08351		mg/Kg		83	70 - 130	7	35
Ethylbenzene	<0.00198	U	0.100	0.08399		mg/Kg		84	70 - 130	8	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.1931		mg/Kg		96	70 - 130	6	35
o-Xylene	<0.00198	U	0.100	0.09111		mg/Kg		90	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-65041/1-A

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/19/23 12:14	10/19/23 19:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/23 12:14	10/19/23 19:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/23 12:14	10/19/23 19:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	198	S1+	70 - 130	10/19/23 12:14	10/19/23 19:30	1
o-Terphenyl	168	S1+	70 - 130	10/19/23 12:14	10/19/23 19:30	1

Lab Sample ID: LCS 880-65041/2-A

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	977.6		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-65041/2-A

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65041

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-65041/3-A

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65041

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	927.1		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	987.6		mg/Kg		99	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 890-5474-A-1-E MS

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 65041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<81.0	U F1 F2	1300	1174		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<81.0	U F1 F2	1300	1559		mg/Kg		118	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-5474-A-1-F MSD

Matrix: Solid

Analysis Batch: 65018

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 65041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<81.0	U F1 F2	1300	116.4	F1 F2	mg/Kg		5	70 - 130	164	20
Diesel Range Organics (Over C10-C28)	<81.0	U F1 F2	1300	<64.9	U F1 F2	mg/Kg		-0.1	70 - 130	194	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	94		70 - 130

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65038/1-A

Matrix: Solid

Analysis Batch: 65042

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/19/23 12:49	1

Lab Sample ID: LCS 880-65038/2-A

Matrix: Solid

Analysis Batch: 65042

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.4		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-65038/3-A

Matrix: Solid

Analysis Batch: 65042

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-5474-A-10-B MS

Matrix: Solid

Analysis Batch: 65042

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	188	F1	250	404.9	F1	mg/Kg		87	90 - 110

Lab Sample ID: 890-5474-A-10-C MSD

Matrix: Solid

Analysis Batch: 65042

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	188	F1	250	403.8	F1	mg/Kg		86	90 - 110	0	20

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## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

## GC VOA

## Prep Batch: 64913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	5035	
890-5469-2	TANK 2 -W	Total/NA	Solid	5035	
MB 880-64913/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-64913/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64913/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34579-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-34579-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 64935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	8021B	64913
890-5469-2	TANK 2 -W	Total/NA	Solid	8021B	64913
MB 880-64913/5-B	Method Blank	Total/NA	Solid	8021B	64913
LCS 880-64913/1-A	Lab Control Sample	Total/NA	Solid	8021B	64913
LCSD 880-64913/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64913
880-34579-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	64913
880-34579-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	64913

## Analysis Batch: 65091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	Total BTEX	
890-5469-2	TANK 2 -W	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 65018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	8015B NM	65041
890-5469-2	TANK 2 -W	Total/NA	Solid	8015B NM	65041
MB 880-65041/1-A	Method Blank	Total/NA	Solid	8015B NM	65041
LCS 880-65041/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65041
LCSD 880-65041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65041
890-5474-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	65041
890-5474-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	65041

## Prep Batch: 65041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	8015NM Prep	
890-5469-2	TANK 2 -W	Total/NA	Solid	8015NM Prep	
MB 880-65041/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65041/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5474-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5474-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 65141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Total/NA	Solid	8015 NM	
890-5469-2	TANK 2 -W	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

HPLC/IC

Leach Batch: 65038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Soluble	Solid	DI Leach	
890-5469-2	TANK 2 -W	Soluble	Solid	DI Leach	
MB 880-65038/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65038/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65038/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5474-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5474-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 65042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5469-1	TANK 1 -W	Soluble	Solid	300.0	65038
890-5469-2	TANK 2 -W	Soluble	Solid	300.0	65038
MB 880-65038/1-A	Method Blank	Soluble	Solid	300.0	65038
LCS 880-65038/2-A	Lab Control Sample	Soluble	Solid	300.0	65038
LCSD 880-65038/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65038
890-5474-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	65038
890-5474-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	65038

Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

Client Sample ID: TANK 1 -W  
Date Collected: 10/16/23 09:58  
Date Received: 10/17/23 08:27

Lab Sample ID: 890-5469-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64913	10/18/23 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64935	10/18/23 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65091	10/18/23 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			65141	10/20/23 03:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	65041	10/19/23 12:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65018	10/20/23 03:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65038	10/19/23 17:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65042	10/19/23 19:02	CH	EET MID

Client Sample ID: TANK 2 -W  
Date Collected: 10/16/23 15:13  
Date Received: 10/17/23 08:27

Lab Sample ID: 890-5469-2  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	64913	10/18/23 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64935	10/18/23 14:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65091	10/18/23 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			65141	10/20/23 03:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65041	10/19/23 12:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65018	10/20/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65038	10/19/23 17:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65042	10/19/23 19:07	CH	EET MID

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5469-1  
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5469-1	TANK 1 -W	Solid	10/16/23 09:58	10/17/23 08:27	6
890-5469-2	TANK 2 -W	Solid	10/16/23 15:13	10/17/23 08:27	6

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



**Environment Testing**  
**Xenco**

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody

**Work Order No:**

www.xenco.com Page \_\_\_\_ of \_\_\_\_

<b>Project Manager:</b>	Joseph Guesnier	<b>Bill to: (if different)</b>	Spur
<b>Company Name:</b>	Terracon	<b>Company Name:</b>	
<b>Address:</b>	4526 W. Pierce St	<b>Address:</b>	
<b>City, State ZIP:</b>	Carlsbad NM, 88520	<b>City, State ZIP:</b>	
<b>Phone:</b>	(806)-300-0140	<b>Email:</b>	Gus.Sanchez@Terracon.com; Travis.Casey@Terracon.com; Joseph.Guesnier@Terracon.com

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:				
Reporting:	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>	Other: _____	

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP 6010 :		8RCRA		5b	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U										
Hg: 1631 / 245.1 / 7470 / 77471																																

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	10/17 8:27			


Printed Date: 08/25/2020 Rev. 2020.2



## Eurofins Carlsbad

1089 N Canal St  
Carlsbad NM 88220  
Phone 575-988-3199 Fax 575-988-3199

## Chain of Custody Record



**eurofins**

## Environment Testing

[illegible]

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5469-1

SDG Number: KH227025

Login Number: 5469

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5469-1

SDG Number: KH227025

Login Number: 5469

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/18/23 12:44 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Joseph Guesnier  
Terracon Consulting Eng & Scientists  
5847 50th St  
Lubbock, Texas 79424

Generated 10/23/2023 10:29:01 PM

## JOB DESCRIPTION

Folk 11  
SDG NUMBER KH227025

## JOB NUMBER

890-5489-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

# Eurofins Carlsbad

## Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

### Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).





Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Laboratory Job ID: 890-5489-1  
SDG: KH227025

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## Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

**Job ID: 890-5489-1**

**Laboratory: Eurofins Carlsbad**

**Narrative****Job Narrative  
890-5489-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**

The samples were received on 10/19/2023 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -4.2°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: A1, B1-S-SW (890-5489-1), A8 - W-SW (890-5489-2) and A1, B1-FS (890-5489-3).

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-65335/5-A) and (880-34727-A-11-G). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-65276 and analytical batch 880-65282 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: A1, B1-S-SW (890-5489-1) and A8 - W-SW (890-5489-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65282/20), (CCV 880-65282/31) and (CCV 880-65282/5). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

Client Sample ID: A1, B1-S-SW

Lab Sample ID: 890-5489-1

Date Collected: 10/18/23 11:03

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 0-4'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 12:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/23/23 09:14	10/23/23 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/23/23 09:14	10/23/23 12:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/23/23 09:14	10/23/23 12:24	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/23/23 12:24	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.6		50.5		mg/Kg			10/22/23 16:44	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/21/23 16:11	10/22/23 16:44	1
Diesel Range Organics (Over C10-C28)	63.6		50.5		mg/Kg		10/21/23 16:11	10/22/23 16:44	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/21/23 16:11	10/22/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	10/21/23 16:11	10/22/23 16:44	1
o-Terphenyl	119		70 - 130	10/21/23 16:11	10/22/23 16:44	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.03		mg/Kg			10/20/23 13:36	1

Client Sample ID: A8 - W-SW

Lab Sample ID: 890-5489-2

Date Collected: 10/18/23 10:54

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 0-2'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/23/23 09:14	10/23/23 12:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/23/23 09:14	10/23/23 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/23/23 09:14	10/23/23 12:45	1

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

## Client Sample ID: A8 - W-SW

Lab Sample ID: 890-5489-2

Date Collected: 10/18/23 10:54

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 0-2'

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	10/23/23 09:14	10/23/23 12:45	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/23/23 12:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1310		50.0		mg/Kg			10/22/23 16:22	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 16:22	1
Diesel Range Organics (Over C10-C28)	1310		50.0		mg/Kg		10/21/23 16:11	10/22/23 16:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				10/21/23 16:11	10/22/23 16:22	1
o-Terphenyl	109		70 - 130				10/21/23 16:11	10/22/23 16:22	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.99		mg/Kg			10/20/23 13:41	1

## Client Sample ID: A1, B1-FS

Lab Sample ID: 890-5489-3

Date Collected: 10/18/23 12:53

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 4'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/23/23 09:14	10/23/23 13:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/23/23 09:14	10/23/23 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/23/23 09:14	10/23/23 13:05	1
1,4-Difluorobenzene (Surr)	82		70 - 130	10/23/23 09:14	10/23/23 13:05	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/23/23 13:05	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/22/23 17:06	1

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

Client Sample ID: A1, B1-FS

Lab Sample ID: 890-5489-3

Date Collected: 10/18/23 12:53

Matrix: Solid

Date Received: 10/19/23 10:04

Sample Depth: 4'

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 17:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 17:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/21/23 16:11	10/22/23 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				10/21/23 16:11	10/22/23 17:06	1
o-Terphenyl	109		70 - 130				10/21/23 16:11	10/22/23 17:06	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	238		5.04		mg/Kg			10/20/23 13:58	1



## Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5489-1	A1, B1-S-SW	88	79
890-5489-2	A8 - W-SW	89	83
890-5489-3	A1, B1-FS	85	82
LCS 880-65335/1-A	Lab Control Sample	107	111
LCSD 880-65335/2-A	Lab Control Sample Dup	105	114
MB 880-65335/5-A	Method Blank	66 S1-	101
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5489-1	A1, B1-S-SW	140 S1+	119
890-5489-2	A8 - W-SW	132 S1+	109
890-5489-3	A1, B1-FS	122	109
LCS 880-65276/2-A	Lab Control Sample	110	128
LCSD 880-65276/3-A	Lab Control Sample Dup	108	120
MB 880-65276/1-A	Method Blank	194 S1+	188 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65335/5-A

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 09:14	10/23/23 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 09:14	10/23/23 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	10/23/23 09:14	10/23/23 11:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/23/23 09:14	10/23/23 11:42	1

Lab Sample ID: LCS 880-65335/1-A

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Toluene	0.100	0.1094		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1078		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2334		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-65335/2-A

Matrix: Solid

Analysis Batch: 65321

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65335

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1087		mg/Kg		109	70 - 130	5	35
Toluene	0.100	0.1097		mg/Kg		110	70 - 130	0	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2300		mg/Kg		115	70 - 130	1	35
o-Xylene	0.100	0.1100		mg/Kg		110	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-65276/1-A

Matrix: Solid

Analysis Batch: 65282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	194	S1+	70 - 130				10/21/23 16:11	10/22/23 08:17	1
o-Terphenyl	188	S1+	70 - 130				10/21/23 16:11	10/22/23 08:17	1

Lab Sample ID: LCS 880-65276/2-A

Matrix: Solid

Analysis Batch: 65282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	981.7		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	956.4		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	128		70 - 130				

Lab Sample ID: LCSD 880-65276/3-A

Matrix: Solid

Analysis Batch: 65282

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	975.5		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	910.9		mg/Kg		91	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	120		70 - 130						

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65175/1-A

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/20/23 12:06	1

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-65175/2-A

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.5		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-65175/3-A

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-5489-2 MS

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: A8 - W-SW

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	125		250	387.5		mg/Kg		105	90 - 110		

Lab Sample ID: 890-5489-2 MSD

Matrix: Solid

Analysis Batch: 65226

Client Sample ID: A8 - W-SW

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	125		250	386.3		mg/Kg		105	90 - 110	0	20

## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

## GC VOA

## Analysis Batch: 65321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	8021B	65335
890-5489-2	A8 - W-SW	Total/NA	Solid	8021B	65335
890-5489-3	A1, B1-FS	Total/NA	Solid	8021B	65335
MB 880-65335/5-A	Method Blank	Total/NA	Solid	8021B	65335
LCS 880-65335/1-A	Lab Control Sample	Total/NA	Solid	8021B	65335
LCSD 880-65335/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65335

## Prep Batch: 65335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	5035	
890-5489-2	A8 - W-SW	Total/NA	Solid	5035	
890-5489-3	A1, B1-FS	Total/NA	Solid	5035	
MB 880-65335/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65335/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65335/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 65410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	Total BTEX	
890-5489-2	A8 - W-SW	Total/NA	Solid	Total BTEX	
890-5489-3	A1, B1-FS	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 65276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	8015NM Prep	
890-5489-2	A8 - W-SW	Total/NA	Solid	8015NM Prep	
890-5489-3	A1, B1-FS	Total/NA	Solid	8015NM Prep	
MB 880-65276/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65276/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 65282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	8015B NM	65276
890-5489-2	A8 - W-SW	Total/NA	Solid	8015B NM	65276
890-5489-3	A1, B1-FS	Total/NA	Solid	8015B NM	65276
MB 880-65276/1-A	Method Blank	Total/NA	Solid	8015B NM	65276
LCS 880-65276/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65276
LCSD 880-65276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65276

## Analysis Batch: 65375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Total/NA	Solid	8015 NM	
890-5489-2	A8 - W-SW	Total/NA	Solid	8015 NM	
890-5489-3	A1, B1-FS	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

## HPLC/IC

## Leach Batch: 65175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Soluble	Solid	DI Leach	
890-5489-2	A8 - W-SW	Soluble	Solid	DI Leach	
890-5489-3	A1, B1-FS	Soluble	Solid	DI Leach	
MB 880-65175/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65175/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65175/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5489-2 MS	A8 - W-SW	Soluble	Solid	DI Leach	
890-5489-2 MSD	A8 - W-SW	Soluble	Solid	DI Leach	

## Analysis Batch: 65226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5489-1	A1, B1-S-SW	Soluble	Solid	300.0	65175
890-5489-2	A8 - W-SW	Soluble	Solid	300.0	65175
890-5489-3	A1, B1-FS	Soluble	Solid	300.0	65175
MB 880-65175/1-A	Method Blank	Soluble	Solid	300.0	65175
LCS 880-65175/2-A	Lab Control Sample	Soluble	Solid	300.0	65175
LCSD 880-65175/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65175
890-5489-2 MS	A8 - W-SW	Soluble	Solid	300.0	65175
890-5489-2 MSD	A8 - W-SW	Soluble	Solid	300.0	65175



## Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

Client Sample ID: A1, B1-S-SW

Lab Sample ID: 890-5489-1

Date Collected: 10/18/23 11:03

Matrix: Solid

Date Received: 10/19/23 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65335	10/23/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65321	10/23/23 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65410	10/23/23 12:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			65375	10/22/23 16:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 16:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65175	10/20/23 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65226	10/20/23 13:36	CH	EET MID

Client Sample ID: A8 - W-SW

Lab Sample ID: 890-5489-2

Date Collected: 10/18/23 10:54

Matrix: Solid

Date Received: 10/19/23 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	65335	10/23/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65321	10/23/23 12:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65410	10/23/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			65375	10/22/23 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 16:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65175	10/20/23 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65226	10/20/23 13:41	CH	EET MID

Client Sample ID: A1, B1-FS

Lab Sample ID: 890-5489-3

Date Collected: 10/18/23 12:53

Matrix: Solid

Date Received: 10/19/23 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65335	10/23/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65321	10/23/23 13:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65410	10/23/23 13:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			65375	10/22/23 17:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 17:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65175	10/20/23 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65226	10/20/23 13:58	CH	EET MID

## Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5489-1  
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5489-1	A1, B1-S-SW	Solid	10/18/23 11:03	10/19/23 10:04	0-4'
890-5489-2	A8 - W-SW	Solid	10/18/23 10:54	10/19/23 10:04	0-2'
890-5489-3	A1, B1-FS	Solid	10/18/23 12:53	10/19/23 10:04	4'

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- 2
- 3
- 4
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- 7
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- 9
- 10
- 11
- 12
- 13
- 14

## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
 Highland, TX (409) 704-5446, San Antonio, TX (210) 309-1333  
 El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Environment Testing

Kenco



Work Order No.:

Page \_\_\_\_\_ of \_\_\_\_\_  
www.xenco.com[illegible]

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5489-1

SDG Number: KH227025

Login Number: 5489

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5489-1

SDG Number: KH227025

Login Number: 5489

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/20/23 11:02 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Joseph Guesnier  
Terracon Consulting Eng & Scientists  
5847 50th St  
Lubbock, Texas 79424

Generated 10/25/2023 10:51:41 AM

## JOB DESCRIPTION

Folk 11  
SDG NUMBER KH227025

## JOB NUMBER

890-5500-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

See page two for job notes and contact information.

# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
10/25/2023 10:51:41 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440



# Eurofins Carlsbad

## Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

### Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Laboratory Job ID: 890-5500-1  
SDG: KH227025

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## Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



## Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

**Job ID: 890-5500-1**

**Laboratory: Eurofins Carlsbad**

**Narrative****Job Narrative  
890-5500-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**

The samples were received on 10/20/2023 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: TANK 4 - E (890-5500-1), TANK 3 - E (890-5500-2) and B12 - FS (890-5500-3).

**GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65275 and analytical batch 880-65322 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65447 and analytical batch 880-65444 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B12 - FS (890-5500-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65120 and analytical batch 880-65444 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: TANK 3 - E (890-5500-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: B12 - FS (890-5500-3). Elevated reporting limits (RLs) are provided.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: TANK 3 - E (890-5500-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-65295 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-65295/58).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

Job ID: 890-5500-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

Client Sample ID: TANK 4 - E

Lab Sample ID: 890-5500-1

Date Collected: 10/19/23 11:16

Matrix: Solid

Date Received: 10/20/23 09:52

Sample Depth: 6'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 11:00	10/23/23 20:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/23/23 11:00	10/23/23 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/23/23 11:00	10/23/23 20:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/23/23 11:00	10/23/23 20:38	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/23/23 20:38	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4840		250		mg/Kg			10/23/23 17:02	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		10/23/23 09:31	10/23/23 17:02	5
Diesel Range Organics (Over C10-C28)	4840		250		mg/Kg		10/23/23 09:31	10/23/23 17:02	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		10/23/23 09:31	10/23/23 17:02	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	10/23/23 09:31	10/23/23 17:02	5
o-Terphenyl	129		70 - 130	10/23/23 09:31	10/23/23 17:02	5

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		4.97		mg/Kg			10/24/23 00:28	1

Client Sample ID: TANK 3 - E

Lab Sample ID: 890-5500-2

Date Collected: 10/19/23 15:50

Matrix: Solid

Date Received: 10/20/23 09:52

Sample Depth: 3'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0800		0.0201		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
Toluene	<0.0201	U	0.0201		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
Ethylbenzene	<0.0201	U	0.0201		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
m-Xylene & p-Xylene	<0.0402	U	0.0402		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
o-Xylene	<0.0201	U	0.0201		mg/Kg		10/23/23 14:42	10/24/23 16:17	10
Xylenes, Total	<0.0402	U	0.0402		mg/Kg		10/23/23 14:42	10/24/23 16:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	44	S1-	70 - 130	10/23/23 14:42	10/24/23 16:17	10

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## Client Sample ID: TANK 3 - E

## Lab Sample ID: 890-5500-2

Date Collected: 10/19/23 15:50

Matrix: Solid

Date Received: 10/20/23 09:52

Sample Depth: 3'

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	10/23/23 14:42	10/24/23 16:17	10

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0800		0.0402		mg/Kg			10/24/23 16:17	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	463		50.3		mg/Kg			10/23/23 17:24	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/23/23 09:31	10/23/23 17:24	1
Diesel Range Organics (Over C10-C28)	463		50.3		mg/Kg		10/23/23 09:31	10/23/23 17:24	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/23/23 09:31	10/23/23 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				10/23/23 09:31	10/23/23 17:24	1
o-Terphenyl	87		70 - 130				10/23/23 09:31	10/23/23 17:24	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.9		5.04		mg/Kg			10/24/23 00:35	1

## Client Sample ID: B12 - FS

## Lab Sample ID: 890-5500-3

Date Collected: 10/19/23 12:27

Matrix: Solid

Date Received: 10/20/23 09:52

Sample Depth: 4'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0504	U	0.0504		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
Toluene	<0.0504	U	0.0504		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
Ethylbenzene	<0.0504	U	0.0504		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
m-Xylene & p-Xylene	<0.101	U	0.101		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
o-Xylene	<0.0504	U	0.0504		mg/Kg		10/24/23 09:04	10/25/23 07:16	25
Xylenes, Total	<0.101	U	0.101		mg/Kg		10/24/23 09:04	10/25/23 07:16	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	10/24/23 09:04	10/25/23 07:16	25
1,4-Difluorobenzene (Surr)	91		70 - 130	10/24/23 09:04	10/25/23 07:16	25

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.101	U	0.101		mg/Kg			10/25/23 07:16	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	120		50.1		mg/Kg			10/23/23 19:10	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

Client Sample ID: B12 - FS  
Date Collected: 10/19/23 12:27  
Date Received: 10/20/23 09:52  
Sample Depth: 4'

Lab Sample ID: 890-5500-3  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/23/23 09:31	10/23/23 19:10	1	
Diesel Range Organics (Over C10-C28)	120		50.1		mg/Kg		10/23/23 09:31	10/23/23 19:10	1	
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/23/23 09:31	10/23/23 19:10	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	79		70 - 130				10/23/23 09:31	10/23/23 19:10	1	
o-Terphenyl	89		70 - 130				10/23/23 09:31	10/23/23 19:10	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	47.7		4.96		mg/Kg			10/24/23 00:41	1	

## Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5500-1	TANK 4 - E	91	92
890-5500-2	TANK 3 - E	44 S1-	105
890-5500-3	B12 - FS	136 S1+	91
LCS 880-65275/1-A	Lab Control Sample	100	100
LCS 880-65370/1-A	Lab Control Sample	123	112
LCS 880-65447/1-A	Lab Control Sample	79	117
LCSD 880-65275/2-A	Lab Control Sample Dup	106	101
LCSD 880-65370/2-A	Lab Control Sample Dup	113	104
LCSD 880-65447/2-A	Lab Control Sample Dup	84	112
MB 880-65120/5-A	Method Blank	115	144 S1+
MB 880-65275/5-A	Method Blank	105	132 S1+
MB 880-65370/5-A	Method Blank	72	97
MB 880-65447/5-A	Method Blank	109	157 S1+
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5500-1	TANK 4 - E	105	129
890-5500-2	TANK 3 - E	78	87
890-5500-3	B12 - FS	79	89
LCS 880-65337/2-A	Lab Control Sample	90	100
LCSD 880-65337/3-A	Lab Control Sample Dup	89	97
MB 880-65337/1-A	Method Blank	107	126
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			



## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65120/5-A

Matrix: Solid

Analysis Batch: 65444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/19/23 17:44	10/24/23 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/19/23 17:44	10/24/23 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/19/23 17:44	10/24/23 11:34	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130	10/19/23 17:44	10/24/23 11:34	1

Lab Sample ID: MB 880-65275/5-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/23 15:12	10/23/23 12:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/21/23 15:12	10/23/23 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/21/23 15:12	10/23/23 12:11	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	10/21/23 15:12	10/23/23 12:11	1

Lab Sample ID: LCS 880-65275/1-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08759		mg/Kg		88	70 - 130
Toluene	0.100	0.07851		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08016		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1842		mg/Kg		92	70 - 130
o-Xylene	0.100	0.08963		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-65275/2-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09701		mg/Kg		97	70 - 130	10	35

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-65275/2-A

Matrix: Solid

Analysis Batch: 65322

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65275

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08247		mg/Kg		82	70 - 130	5	35
Ethylbenzene	0.100	0.08707		mg/Kg		87	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130	5	35
o-Xylene	0.100	0.09524		mg/Kg		95	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-65370/5-A

Matrix: Solid

Analysis Batch: 65442

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	10/23/23 14:42	10/24/23 11:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/23/23 14:42	10/24/23 11:07	1

Lab Sample ID: LCS 880-65370/1-A

Matrix: Solid

Analysis Batch: 65442

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08870		mg/Kg		89	70 - 130
Toluene	0.100	0.09900		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2385		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-65370/2-A

Matrix: Solid

Analysis Batch: 65442

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65370

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09201		mg/Kg		92	70 - 130	4	35
Toluene	0.100	0.09626		mg/Kg		96	70 - 130	3	35
Ethylbenzene	0.100	0.09835		mg/Kg		98	70 - 130	13	35

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-65370/2-A

Matrix: Solid

Analysis Batch: 65442

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65370

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.2147		mg/Kg		107	70 - 130	10	35
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-65447/5-A

Matrix: Solid

Analysis Batch: 65444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/24/23 09:04	10/24/23 23:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/24/23 09:04	10/24/23 23:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/24/23 09:04	10/24/23 23:10	1
1,4-Difluorobenzene (Surr)	157	S1+	70 - 130	10/24/23 09:04	10/24/23 23:10	1

Lab Sample ID: LCS 880-65447/1-A

Matrix: Solid

Analysis Batch: 65444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09820		mg/Kg		98	70 - 130
Toluene	0.100	0.08016		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.07170		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	0.200	0.1674		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08039		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-65447/2-A

Matrix: Solid

Analysis Batch: 65444

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65447

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	12	35
Toluene	0.100	0.09239		mg/Kg		92	70 - 130	14	35
Ethylbenzene	0.100	0.07910		mg/Kg		79	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1938		mg/Kg		97	70 - 130	15	35
o-Xylene	0.100	0.09501		mg/Kg		95	70 - 130	17	35

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-65337/1-A

Matrix: Solid

Analysis Batch: 65295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/23/23 07:31	10/23/23 07:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/23/23 07:31	10/23/23 07:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/23/23 07:31	10/23/23 07:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/23/23 07:31	10/23/23 07:59	1
o-Terphenyl	126		70 - 130				10/23/23 07:31	10/23/23 07:59	1

Lab Sample ID: LCS 880-65337/2-A

Matrix: Solid

Analysis Batch: 65295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	843.5		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	843.8		mg/Kg		84	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	90		70 - 130				
o-Terphenyl	100		70 - 130				

Lab Sample ID: LCSD 880-65337/3-A

Matrix: Solid

Analysis Batch: 65295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65337

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	862.0		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	865.3		mg/Kg		87	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	97		70 - 130						

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QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65323/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 65465									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/23/23 21:28	1

Lab Sample ID: LCS 880-65323/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 65465									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	240.6		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-65323/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 65465									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.9		mg/Kg		96	90 - 110	0	20

## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## GC VOA

## Prep Batch: 65120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65120/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 65275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	5035	
MB 880-65275/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65275/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65275/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 65322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	8021B	65275
MB 880-65275/5-A	Method Blank	Total/NA	Solid	8021B	65275
LCS 880-65275/1-A	Lab Control Sample	Total/NA	Solid	8021B	65275
LCSD 880-65275/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65275

## Prep Batch: 65370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-2	TANK 3 - E	Total/NA	Solid	5035	
MB 880-65370/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65370/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65370/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 65431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	Total BTEX	
890-5500-2	TANK 3 - E	Total/NA	Solid	Total BTEX	
890-5500-3	B12 - FS	Total/NA	Solid	Total BTEX	

## Analysis Batch: 65442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-2	TANK 3 - E	Total/NA	Solid	8021B	65370
MB 880-65370/5-A	Method Blank	Total/NA	Solid	8021B	65370
LCS 880-65370/1-A	Lab Control Sample	Total/NA	Solid	8021B	65370
LCSD 880-65370/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65370

## Analysis Batch: 65444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-3	B12 - FS	Total/NA	Solid	8021B	65447
MB 880-65120/5-A	Method Blank	Total/NA	Solid	8021B	65120
MB 880-65447/5-A	Method Blank	Total/NA	Solid	8021B	65447
LCS 880-65447/1-A	Lab Control Sample	Total/NA	Solid	8021B	65447
LCSD 880-65447/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65447

## Prep Batch: 65447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-3	B12 - FS	Total/NA	Solid	5035	
MB 880-65447/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65447/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65447/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## GC Semi VOA

## Analysis Batch: 65295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	8015B NM	65337
890-5500-2	TANK 3 - E	Total/NA	Solid	8015B NM	65337
890-5500-3	B12 - FS	Total/NA	Solid	8015B NM	65337
MB 880-65337/1-A	Method Blank	Total/NA	Solid	8015B NM	65337
LCS 880-65337/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65337
LCSD 880-65337/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65337

## Prep Batch: 65337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	8015NM Prep	
890-5500-2	TANK 3 - E	Total/NA	Solid	8015NM Prep	
890-5500-3	B12 - FS	Total/NA	Solid	8015NM Prep	
MB 880-65337/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65337/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65337/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 65432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Total/NA	Solid	8015 NM	
890-5500-2	TANK 3 - E	Total/NA	Solid	8015 NM	
890-5500-3	B12 - FS	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 65323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Soluble	Solid	DI Leach	
890-5500-2	TANK 3 - E	Soluble	Solid	DI Leach	
890-5500-3	B12 - FS	Soluble	Solid	DI Leach	
MB 880-65323/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65323/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65323/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 65465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5500-1	TANK 4 - E	Soluble	Solid	300.0	65323
890-5500-2	TANK 3 - E	Soluble	Solid	300.0	65323
890-5500-3	B12 - FS	Soluble	Solid	300.0	65323
MB 880-65323/1-A	Method Blank	Soluble	Solid	300.0	65323
LCS 880-65323/2-A	Lab Control Sample	Soluble	Solid	300.0	65323
LCSD 880-65323/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65323

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## Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

## Client Sample ID: TANK 4 - E

## Lab Sample ID: 890-5500-1

Date Collected: 10/19/23 11:16

Matrix: Solid

Date Received: 10/20/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65275	10/23/23 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65322	10/23/23 20:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65431	10/23/23 20:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			65432	10/23/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65337	10/23/23 09:31	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	65295	10/23/23 17:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		1			65465	10/24/23 00:28	CH	EET MID

## Client Sample ID: TANK 3 - E

## Lab Sample ID: 890-5500-2

Date Collected: 10/19/23 15:50

Matrix: Solid

Date Received: 10/20/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	65442	10/24/23 16:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65431	10/24/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			65432	10/23/23 17:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	65337	10/23/23 09:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65295	10/23/23 17:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		1			65465	10/24/23 00:35	CH	EET MID

## Client Sample ID: B12 - FS

## Lab Sample ID: 890-5500-3

Date Collected: 10/19/23 12:27

Matrix: Solid

Date Received: 10/20/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	65447	10/24/23 09:04	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	65444	10/25/23 07:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65431	10/25/23 07:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			65432	10/23/23 19:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	65337	10/23/23 09:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65295	10/23/23 19:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		1			65465	10/24/23 00:41	CH	EET MID

## Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5500-1  
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5500-1	TANK 4 - E	Solid	10/19/23 11:16	10/20/23 09:52	6'
890-5500-2	TANK 3 - E	Solid	10/19/23 15:50	10/20/23 09:52	3'
890-5500-3	B12 - FS	Solid	10/19/23 12:27	10/20/23 09:52	4'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

## Environment Testing

Midland, TX (432) 704-5440, San Antonio, TX (210) 569-3334

Xenco

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Joseph Guernier	Bill to: (if different)	Spur
Company Name:	Terraco	Company Name:	
Address:	4526 W. Pierce St.	Address:	
City, State ZIP:	Carlsbad NM, 88220	City, State ZIP:	
Phone:		Email:	Gus.Sanchez@Terraco, Travis.Casey@Terraco

Project Name:	Folkli	Turn Around	
Project Number:	KH227025	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	
Project Location:		Due Date:	48 hr
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm	
P.O. #:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Tank 4 - E	Soil	10-14-23	11:16	6'	Grab	1	(Chloride EPA800)			None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Tank 3 - E	Soil	10-14-23	15:50	3'	Grab	1				
B12 - FS	Soil	10-14-23	12:27	4'	Comp	1				

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	10/10 952			

Revised Date: 08/25/2020 Rev. 2020.2



## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5500-1

SDG Number: KH227025

Login Number: 5500

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5500-1

SDG Number: KH227025

Login Number: 5500

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/23/23 09:18 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Joseph Guesnier  
Terracon Consulting Eng & Scientists  
2526 W Pierce Street  
Carlsbad, New Mexico 88220

Generated 11/6/2023 2:33:25 PM

## JOB DESCRIPTION

Folk 11  
SDG NUMBER KH227025

## JOB NUMBER

890-5556-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220



# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



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Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

# Eurofins Carlsbad

## Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

### Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Laboratory Job ID: 890-5556-1  
SDG: KH227025

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## Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

**Job ID: 890-5556-1**

**Laboratory: Eurofins Carlsbad**

**Narrative****Job Narrative  
890-5556-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**

The samples were received on 11/2/2023 12:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: c12, c13, - ne - sw (890-5556-1), c13 - fs (890-5556-2) and exc. A12 (890-5556-3).

**GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66219 and analytical batch 880-66218 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: c12, c13, - ne - sw (890-5556-1) and c13 - fs (890-5556-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-66219 and analytical batch 880-66218 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-66149 and analytical batch 880-66125 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66125/31) and (CCV 880-66125/47). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The method blank for preparation batch 880-66149 and analytical batch 880-66125 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-66135 and analytical batch 880-66127 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-66135/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: c12, c13, - ne - sw (890-5556-1) and c13

Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

Job ID: 890-5556-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

- fs (890-5556-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

Client Sample ID: c12, c13, - ne - sw

Lab Sample ID: 890-5556-1

Date Collected: 10/31/23 13:28

Matrix: Solid

Date Received: 11/02/23 12:04

Sample Depth: 0-4

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 15:56	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		11/05/23 10:15	11/05/23 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	11/05/23 10:15	11/05/23 15:56	1
1,4-Difluorobenzene (Surr)	83		70 - 130	11/05/23 10:15	11/05/23 15:56	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/05/23 15:56	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.9		49.5		mg/Kg			11/03/23 18:40	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		11/03/23 12:03	11/03/23 18:40	1
Diesel Range Organics (Over C10-C28)	85.9		49.5		mg/Kg		11/03/23 12:03	11/03/23 18:40	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		11/03/23 12:03	11/03/23 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	11/03/23 12:03	11/03/23 18:40	1
o-Terphenyl	141	S1+	70 - 130	11/03/23 12:03	11/03/23 18:40	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		5.02		mg/Kg			11/03/23 22:49	1

Client Sample ID: c13 - fs

Lab Sample ID: 890-5556-2

Date Collected: 10/31/23 13:42

Matrix: Solid

Date Received: 11/02/23 12:04

Sample Depth: 4

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 13:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/05/23 10:15	11/05/23 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	11/05/23 10:15	11/05/23 13:32	1

Eurofins Carlsbad

## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

Client Sample ID: c13 - fs

Lab Sample ID: 890-5556-2

Date Collected: 10/31/23 13:42

Matrix: Solid

Date Received: 11/02/23 12:04

Sample Depth: 4

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	11/05/23 10:15	11/05/23 13:32	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/05/23 13:32	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.0		50.2		mg/Kg			11/03/23 19:01	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		11/03/23 12:03	11/03/23 19:01	1
Diesel Range Organics (Over C10-C28)	82.0		50.2		mg/Kg		11/03/23 12:03	11/03/23 19:01	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/03/23 12:03	11/03/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				11/03/23 12:03	11/03/23 19:01	1
o-Terphenyl	137	S1+	70 - 130				11/03/23 12:03	11/03/23 19:01	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.1		5.04		mg/Kg			11/03/23 22:54	1

Client Sample ID: exc. A12

Lab Sample ID: 890-5556-3

Date Collected: 10/31/23 14:21

Matrix: Solid

Date Received: 11/02/23 12:04

Sample Depth: 2

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/05/23 10:15	11/05/23 13:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/05/23 10:15	11/05/23 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	11/05/23 10:15	11/05/23 13:52	1
1,4-Difluorobenzene (Surr)	80		70 - 130	11/05/23 10:15	11/05/23 13:52	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/05/23 13:52	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			11/03/23 23:16	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

Client Sample ID: exc. A12  
Date Collected: 10/31/23 14:21  
Date Received: 11/02/23 12:04  
Sample Depth: 2

Lab Sample ID: 890-5556-3  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		11/03/23 11:40	11/03/23 23:16	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/03/23 11:40	11/03/23 23:16	1	
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/03/23 11:40	11/03/23 23:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	118		70 - 130				11/03/23 11:40	11/03/23 23:16	1	
o-Terphenyl	112		70 - 130				11/03/23 11:40	11/03/23 23:16	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	64.8		5.02		mg/Kg			11/03/23 22:59	1	



## Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5556-1	c12, c13, - ne - sw	88	83
890-5556-1 MS	c12, c13, - ne - sw	118	105
890-5556-1 MSD	c12, c13, - ne - sw	114	109
890-5556-2	c13 - fs	69 S1-	74
890-5556-3	exc. A12	91	80
LCS 880-66219/1-A	Lab Control Sample	110	121
LCSD 880-66219/2-A	Lab Control Sample Dup	119	114
MB 880-66219/5-A	Method Blank	69 S1-	102
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5556-1	c12, c13, - ne - sw	125	141 S1+
890-5556-2	c13 - fs	121	137 S1+
890-5556-3	exc. A12	118	112
LCS 880-66135/2-A	Lab Control Sample	75	95
LCS 880-66149/2-A	Lab Control Sample	106	116
LCSD 880-66135/3-A	Lab Control Sample Dup	69 S1-	84
LCSD 880-66149/3-A	Lab Control Sample Dup	101	111
MB 880-66135/1-A	Method Blank	189 S1+	219 S1+
MB 880-66149/1-A	Method Blank	230 S1+	226 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66219/5-A

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/05/23 10:15	11/05/23 12:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/05/23 10:15	11/05/23 12:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	11/05/23 10:15	11/05/23 12:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/05/23 10:15	11/05/23 12:50	1

Lab Sample ID: LCS 880-66219/1-A

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1218		mg/Kg		122	70 - 130
Toluene	0.100	0.1165		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1133		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2369		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-66219/2-A

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1124		mg/Kg		112	70 - 130	8	35
Toluene	0.100	0.1007		mg/Kg		101	70 - 130	15	35
Ethylbenzene	0.100	0.09686		mg/Kg		97	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2234		mg/Kg		112	70 - 130	6	35
o-Xylene	0.100	0.1065		mg/Kg		107	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 890-5556-1 MS

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: c12, c13, - ne - sw

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200		0.0996	0.07840	F1	mg/Kg		57	70 - 130
Toluene	<0.00200		0.0996	0.07884	F1	mg/Kg		-84	70 - 130

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-5556-1 MS

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: c12, c13, - ne - sw

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200		0.0996	0.08216	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00399		0.199	0.1740	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00200		0.0996	0.08430		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-5556-1 MSD

Matrix: Solid

Analysis Batch: 66218

Client Sample ID: c12, c13, - ne - sw

Prep Type: Total/NA

Prep Batch: 66219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.07674		mg/Kg		77	70 - 130	2	35
Toluene	<0.00200	U F1	0.0994	0.07652		mg/Kg		77	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.0994	0.07939		mg/Kg		80	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1677		mg/Kg		84	70 - 130	4	35
o-Xylene	<0.00200	U	0.0994	0.08154		mg/Kg		82	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-66135/1-A

Matrix: Solid

Analysis Batch: 66127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/23 07:41	11/03/23 08:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/23 07:41	11/03/23 08:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/23 07:41	11/03/23 08:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	189	S1+	70 - 130	11/03/23 07:41	11/03/23 08:26	1
o-Terphenyl	219	S1+	70 - 130	11/03/23 07:41	11/03/23 08:26	1

Lab Sample ID: LCS 880-66135/2-A

Matrix: Solid

Analysis Batch: 66127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	874.2		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	844.3		mg/Kg		84	70 - 130

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-66135/2-A

Matrix: Solid

Analysis Batch: 66127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-66135/3-A

Matrix: Solid

Analysis Batch: 66127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66135

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	837.4		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	804.7		mg/Kg		80	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: MB 880-66149/1-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/23 11:39	11/03/23 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/23 11:39	11/03/23 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/23 11:39	11/03/23 19:44	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	230	S1+	70 - 130				11/03/23 11:39	11/03/23 19:44	1
o-Terphenyl	226	S1+	70 - 130				11/03/23 11:39	11/03/23 19:44	1

Lab Sample ID: LCS 880-66149/2-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66149

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	900.9		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	973.8		mg/Kg		97	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	116		70 - 130

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-66149/3-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66149

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	869.7		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	924.8		mg/Kg		92	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	101		70 - 130						
o-Terphenyl	111		70 - 130						

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66174/1-A

Matrix: Solid

Analysis Batch: 66207

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/03/23 21:36	1

Lab Sample ID: LCS 880-66174/2-A

Matrix: Solid

Analysis Batch: 66207

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	272.6		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-66174/3-A

Matrix: Solid

Analysis Batch: 66207

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.2		mg/Kg		105	90 - 110	4	20

## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

## GC VOA

## Analysis Batch: 66218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	8021B	66219
890-5556-2	c13 - fs	Total/NA	Solid	8021B	66219
890-5556-3	exc. A12	Total/NA	Solid	8021B	66219
MB 880-66219/5-A	Method Blank	Total/NA	Solid	8021B	66219
LCS 880-66219/1-A	Lab Control Sample	Total/NA	Solid	8021B	66219
LCSD 880-66219/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66219
890-5556-1 MS	c12, c13, - ne - sw	Total/NA	Solid	8021B	66219
890-5556-1 MSD	c12, c13, - ne - sw	Total/NA	Solid	8021B	66219

## Prep Batch: 66219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	5035	
890-5556-2	c13 - fs	Total/NA	Solid	5035	
890-5556-3	exc. A12	Total/NA	Solid	5035	
MB 880-66219/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66219/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66219/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5556-1 MS	c12, c13, - ne - sw	Total/NA	Solid	5035	
890-5556-1 MSD	c12, c13, - ne - sw	Total/NA	Solid	5035	

## Analysis Batch: 66296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	Total BTEX	
890-5556-2	c13 - fs	Total/NA	Solid	Total BTEX	
890-5556-3	exc. A12	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 66125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-3	exc. A12	Total/NA	Solid	8015B NM	66149
MB 880-66149/1-A	Method Blank	Total/NA	Solid	8015B NM	66149
LCS 880-66149/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66149
LCSD 880-66149/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66149

## Analysis Batch: 66127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	8015B NM	66135
890-5556-2	c13 - fs	Total/NA	Solid	8015B NM	66135
MB 880-66135/1-A	Method Blank	Total/NA	Solid	8015B NM	66135
LCS 880-66135/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66135
LCSD 880-66135/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66135

## Prep Batch: 66135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	8015NM Prep	
890-5556-2	c13 - fs	Total/NA	Solid	8015NM Prep	
MB 880-66135/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66135/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66135/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

## GC Semi VOA

## Prep Batch: 66149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-3	exc. A12	Total/NA	Solid	8015NM Prep	
MB 880-66149/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66149/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66149/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 66278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Total/NA	Solid	8015 NM	
890-5556-2	c13 - fs	Total/NA	Solid	8015 NM	
890-5556-3	exc. A12	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 66174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Soluble	Solid	DI Leach	
890-5556-2	c13 - fs	Soluble	Solid	DI Leach	
890-5556-3	exc. A12	Soluble	Solid	DI Leach	
MB 880-66174/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66174/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66174/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 66207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5556-1	c12, c13, - ne - sw	Soluble	Solid	300.0	66174
890-5556-2	c13 - fs	Soluble	Solid	300.0	66174
890-5556-3	exc. A12	Soluble	Solid	300.0	66174
MB 880-66174/1-A	Method Blank	Soluble	Solid	300.0	66174
LCS 880-66174/2-A	Lab Control Sample	Soluble	Solid	300.0	66174
LCSD 880-66174/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66174



## Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

Client Sample ID: c12, c13, - ne - sw

Lab Sample ID: 890-5556-1

Date Collected: 10/31/23 13:28

Matrix: Solid

Date Received: 11/02/23 12:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66219	11/05/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66218	11/05/23 15:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66296	11/05/23 15:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			66278	11/03/23 18:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	66135	11/03/23 12:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66127	11/03/23 18:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66174	11/03/23 15:06	CH	EET MID
Soluble	Analysis	300.0		1			66207	11/03/23 22:49	CH	EET MID

Client Sample ID: c13 - fs

Lab Sample ID: 890-5556-2

Date Collected: 10/31/23 13:42

Matrix: Solid

Date Received: 11/02/23 12:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66219	11/05/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66218	11/05/23 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66296	11/05/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			66278	11/03/23 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	66135	11/03/23 12:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66127	11/03/23 19:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66174	11/03/23 15:06	CH	EET MID
Soluble	Analysis	300.0		1			66207	11/03/23 22:54	CH	EET MID

Client Sample ID: exc. A12

Lab Sample ID: 890-5556-3

Date Collected: 10/31/23 14:21

Matrix: Solid

Date Received: 11/02/23 12:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	66219	11/05/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66218	11/05/23 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66296	11/05/23 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			66278	11/03/23 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	66149	11/03/23 11:40	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66125	11/03/23 23:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66174	11/03/23 15:06	CH	EET MID
Soluble	Analysis	300.0		1			66207	11/03/23 22:59	CH	EET MID

## Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 890-5556-1  
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5556-1	c12, c13, - ne - sw	Solid	10/31/23 13:28	11/02/23 12:04	0-4
890-5556-2	c13 - fs	Solid	10/31/23 13:42	11/02/23 12:04	4
890-5556-3	exc. A12	Solid	10/31/23 14:21	11/02/23 12:04	2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14





## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 505-3334  
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenoco

Work Order No:

www.xenoco.com Page of

Project Manager: Joseph Guesnier	Bill to: (if different)	Spur
Company Name: Terracon	Company Name:	
Address: 4526 W. Pierce St	Address:	
City, State ZIP: Carlsbad NM, 88220	City, State ZIP:	
Phone: (806)-300-0140	Email: Gus.Sanchez@terracon.com; Travis.Casey@terracon.com; Joseph.Guesnier@terracon.com	

Project Name: Folk 11	Turn Around <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number: KH227025	Due Date: 48 hour			None: NO DI Water: H <sub>2</sub> O
Project Location: Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm			Cool: Cool MeOH: Me
Sampler's Name: Gus Sanchez				HCL: HC HNO <sub>3</sub> : HN
PO #:				H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT				H <sub>3</sub> PO <sub>4</sub> : HP
Samples Received Intact: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Temp Blank: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Wet Ice: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>		NaHSO <sub>4</sub> : NABIS
Cooler Custody Seals: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Thermometer ID: 0.2	Correction Factor: 0.2		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Temperature Reading: 2.6	Corrected Temperature: 2.4		Zn Acetate+NaOH: Zn
Total Containers: A				NaOH+Ascorbic Acid: SACP

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Chloride (EPA 300)	BTEX (8021 B)	TPH (8015)
C13, C13 - NE-SW		10-31-23	13:28	0-4	Comp	1		✓	✓	✓
C13 - FS		10-31-23	13:42	4	Comp	1		✓	✓	✓
A12 - BL		10-31-23	14:21	2	Grab	1		✓	✓	✓
Exc. A12										

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenoco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.	
Relinquished by: (Signature)	Received by: (Signature)
1. <i>[Signature]</i>	1. <i>[Signature]</i>
3. <i>[Signature]</i>	3. <i>[Signature]</i>
5. <i>[Signature]</i>	5. <i>[Signature]</i>

Revised Date: 08/25/2020 Rev. 202.02

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5556-1

SDG Number: KH227025

Login Number: 5556

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5556-1

SDG Number: KH227025

Login Number: 5556

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/03/23 10:38 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Joseph Guesnier  
Terracon Consulting Eng & Scientists  
2526 W Pierce Street  
Carlsbad, New Mexico 88220

Generated 5/31/2024 1:16:06 PM

## JOB DESCRIPTION

Folk 11  
KH227025

## JOB NUMBER

880-35214-2

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701



# Eurofins Midland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
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Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

# Eurofins Midland

## Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

### Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Laboratory Job ID: 880-35214-2  
SDG: KH227025

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⬮	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



## Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project: Folk 11

Job ID: 880-35214-2

**Job ID: 880-35214-2**

**Eurofins Midland**

### Job Narrative 880-35214-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 11/2/2023 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: NS-1 (880-35214-1), NS-11 (880-35214-2), NS-13 (880-35214-3), NS-23 (880-35214-4), NS-24 (880-35214-5), A7-FS (880-35214-6) and A7-W-SW (880-35214-7).

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

Client Sample ID: A7-FS

Lab Sample ID: 880-35214-6

Date Collected: 10/31/23 12:09

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 2

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/02/23 12:07	11/03/23 01:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/02/23 12:07	11/03/23 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/02/23 12:07	11/03/23 01:57	1
1,4-Difluorobenzene (Surr)	113		70 - 130	11/02/23 12:07	11/03/23 01:57	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/03/23 01:57	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/03/23 07:16	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/02/23 11:31	11/03/23 07:16	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/02/23 11:31	11/03/23 07:16	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/02/23 11:31	11/03/23 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	185	S1+	70 - 130	11/02/23 11:31	11/03/23 07:16	1
o-Terphenyl	172	S1+	70 - 130	11/02/23 11:31	11/03/23 07:16	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		5.05		mg/Kg			11/03/23 03:22	1

Client Sample ID: A7-W-SW

Lab Sample ID: 880-35214-7

Date Collected: 10/31/23 12:11

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 0-2

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/23 12:07	11/03/23 02:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/02/23 12:07	11/03/23 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	11/02/23 12:07	11/03/23 02:18	1

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

Client Sample ID: A7-W-SW

Lab Sample ID: 880-35214-7

Date Collected: 10/31/23 12:11

Matrix: Solid

Date Received: 11/02/23 10:20

Sample Depth: 0-2

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	118		70 - 130	11/02/23 12:07	11/03/23 02:18	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/23 02:18	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.0		50.3		mg/Kg			11/03/23 11:01	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		11/03/23 09:36	11/03/23 11:01	1
Diesel Range Organics (Over C10-C28)	62.0		50.3		mg/Kg		11/03/23 09:36	11/03/23 11:01	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/03/23 09:36	11/03/23 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130				11/03/23 09:36	11/03/23 11:01	1
o-Terphenyl	169	S1+	70 - 130				11/03/23 09:36	11/03/23 11:01	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	408		4.98		mg/Kg			11/03/23 03:27	1

## Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-35214-6	A7-FS	104	113
880-35214-7	A7-W-SW	106	118

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-35214-6	A7-FS	185 S1+	172 S1+
880-35214-7	A7-W-SW	176 S1+	169 S1+
880-35214-7 MS	A7-W-SW	178 S1+	160 S1+
880-35214-7 MSD	A7-W-SW	174 S1+	155 S1+
LCS 880-66134/2-A	Lab Control Sample	106	117
LCSD 880-66134/3-A	Lab Control Sample Dup	102	110
MB 880-66134/1-A	Method Blank	219 S1+	213 S1+

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl



## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-66134/1-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/23 07:36	11/03/23 08:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/23 07:36	11/03/23 08:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/23 07:36	11/03/23 08:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	219	S1+	70 - 130	11/03/23 07:36	11/03/23 08:26	1
o-Terphenyl	213	S1+	70 - 130	11/03/23 07:36	11/03/23 08:26	1

Lab Sample ID: LCS 880-66134/2-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	915.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	993.8		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-66134/3-A

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66134

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	892.9		mg/Kg		89	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	943.7		mg/Kg		94	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-35214-7 MS

Matrix: Solid

Analysis Batch: 66125

Client Sample ID: A7-W-SW

Prep Type: Total/NA

Prep Batch: 66134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	872.8		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	62.0		997	1357		mg/Kg		130	70 - 130

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### QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-35214-7 MS  
Matrix: Solid  
Analysis Batch: 66125

Client Sample ID: A7-W-SW  
Prep Type: Total/NA  
Prep Batch: 66134

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	178	S1+	70 - 130
o-Terphenyl	160	S1+	70 - 130

Lab Sample ID: 880-35214-7 MSD  
Matrix: Solid  
Analysis Batch: 66125

Client Sample ID: A7-W-SW  
Prep Type: Total/NA  
Prep Batch: 66134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	846.2		mg/Kg		82	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	62.0		997	1304		mg/Kg		125	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	174	S1+	70 - 130
o-Terphenyl	155	S1+	70 - 130

## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

## GC VOA

## Analysis Batch: 66027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Total/NA	Solid	8021B	66069
880-35214-7	A7-W-SW	Total/NA	Solid	8021B	66069

## Prep Batch: 66069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Total/NA	Solid	5035	
880-35214-7	A7-W-SW	Total/NA	Solid	5035	

## Analysis Batch: 66193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Total/NA	Solid	Total BTEX	
880-35214-7	A7-W-SW	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 66024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Total/NA	Solid	8015B NM	66064

## Prep Batch: 66064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 66125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-7	A7-W-SW	Total/NA	Solid	8015B NM	66134
MB 880-66134/1-A	Method Blank	Total/NA	Solid	8015B NM	66134
LCS 880-66134/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66134
LCSD 880-66134/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66134
880-35214-7 MS	A7-W-SW	Total/NA	Solid	8015B NM	66134
880-35214-7 MSD	A7-W-SW	Total/NA	Solid	8015B NM	66134

## Prep Batch: 66134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-7	A7-W-SW	Total/NA	Solid	8015NM Prep	
MB 880-66134/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66134/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66134/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35214-7 MS	A7-W-SW	Total/NA	Solid	8015NM Prep	
880-35214-7 MSD	A7-W-SW	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 66162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Total/NA	Solid	8015 NM	
880-35214-7	A7-W-SW	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 66073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Soluble	Solid	DI Leach	
880-35214-7	A7-W-SW	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

HPLC/IC

Analysis Batch: 66089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35214-6	A7-FS	Soluble	Solid	300.0	66073
880-35214-7	A7-W-SW	Soluble	Solid	300.0	66073

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## Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

**Client Sample ID: A7-FS****Date Collected: 10/31/23 12:09****Date Received: 11/02/23 10:20****Lab Sample ID: 880-35214-6****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 01:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 01:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			66162	11/03/23 07:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	66064	11/02/23 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66024	11/03/23 07:16	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 03:22	CH	EET MID

**Client Sample ID: A7-W-SW****Date Collected: 10/31/23 12:11****Date Received: 11/02/23 10:20****Lab Sample ID: 880-35214-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66069	11/02/23 12:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/03/23 02:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66193	11/03/23 02:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			66162	11/03/23 11:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	66134	11/03/23 09:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66125	11/03/23 11:01	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	66073	11/02/23 12:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	66089	11/03/23 03:27	CH	EET MID

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11

Job ID: 880-35214-2  
SDG: KH227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-35214-6	A7-FS	Solid	10/31/23 12:09	11/02/23 10:20	2
880-35214-7	A7-W-SW	Solid	10/31/23 12:11	11/02/23 10:20	0-2

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## Environment Testing

Houston, TX (281) 240-4700, Dallas, TX (214) 902-0380  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1266  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Work Order No:**

25-14-2

www.xenico.com Page \_\_\_\_\_ of \_\_\_\_\_

Project Manager:		Joseph Guesnier	Bill to: (if different)	Kathy Purvis
Company Name:		Terracon	Company Name:	Spur Energy Partners
Address:		4526 W. Pierce St	Address:	9655 Kay Fwy Suite 500
City, State ZIP:		Carlsbad NM, 88220	City, State ZIP:	Houston, TX 77024
Phone:		(808)-300-0140	Email:	Gis.Sanchez@terracon.com, Travis.Casey@terracon.com, Joseph.Guesnier@terracon.com

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PPP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RMC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:				
Reporting:	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TARP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>	Other:	

[illegible]

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and reimbursement of samples constitutes a valid purchase order from client company to Eurofins Xeno. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$25.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time

1	11/1	9:30	2	WAMU 11/3/22
2	11/1	9:30	3	WAMU 11/3/22
3	11/1	9:30	4	WAMU 11/3/22
4	11/1	9:30	5	WAMU 11/3/22
5	11/1	9:30	6	WAMU 11/3/22
6	11/1	9:30	7	WAMU 11/3/22
7	11/1	9:30	8	WAMU 11/3/22
8	11/1	9:30	9	WAMU 11/3/22
9	11/1	9:30	10	WAMU 11/3/22
10	11/1	9:30	11	WAMU 11/3/22
11	11/1	9:30	12	WAMU 11/3/22
12	11/1	9:30	13	WAMU 11/3/22
13	11/1	9:30	14	WAMU 11/3/22
14	11/1	9:30	15	WAMU 11/3/22
15	11/1	9:30	16	WAMU 11/3/22
16	11/1	9:30	17	WAMU 11/3/22
17	11/1	9:30	18	WAMU 11/3/22
18	11/1	9:30	19	WAMU 11/3/22
19	11/1	9:30	20	WAMU 11/3/22
20	11/1	9:30	21	WAMU 11/3/22
21	11/1	9:30	22	WAMU 11/3/22
22	11/1	9:30	23	WAMU 11/3/22
23	11/1	9:30	24	WAMU 11/3/22
24	11/1	9:30	25	WAMU 11/3/22
25	11/1	9:30	26	WAMU 11/3/22
26	11/1	9:30	27	WAMU 11/3/22
27	11/1	9:30	28	WAMU 11/3/22
28	11/1	9:30	29	WAMU 11/3/22
29	11/1	9:30	30	WAMU 11/3/22
30	11/1	9:30	31	WAMU 11/3/22
31	11/1	9:30	32	WAMU 11/3/22
32	11/1	9:30	33	WAMU 11/3/22
33	11/1	9:30	34	WAMU 11/3/22
34	11/1	9:30	35	WAMU 11/3/22
35	11/1	9:30	36	WAMU 11/3/22
36	11/1	9:30	37	WAMU 11/3/22
37	11/1	9:30	38	WAMU 11/3/22
38	11/1	9:30	39	WAMU 11/3/22
39	11/1	9:30	40	WAMU 11/3/22
40	11/1	9:30	41	WAMU 11/3/22
41	11/1	9:30	42	WAMU 11/3/22
42	11/1	9:30	43	WAMU 11/3/22
43	11/1	9:30	44	WAMU 11/3/22
44	11/1	9:30	45	WAMU 11/3/22
45	11/1	9:30	46	WAMU 11/3/22
46	11/1	9:30	47	WAMU 11/3/22
47	11/1	9:30	48	WAMU 11/3/22
48	11/1	9:30	49	WAMU 11/3/22
49	11/1	9:30	50	WAMU 11/3/22
50	11/1	9:30	51	WAMU 11/3/22
51	11/1	9:30	52	WAMU 11/3/22
52	11/1	9:30	53	WAMU 11/3/22
53	11/1	9:30	54	WAMU 11/3/22
54	11/1	9:30	55	WAMU 11/3/22
55	11/1	9:30	56	WAMU 11/3/22
56	11/1	9:30	57	WAMU 11/3/22
57	11/1	9:30	58	WAMU 11/3/22
58	11/1	9:30	59	WAMU 11/3/22
59	11/1	9:30	60	WAMU 11/3/22
60	11/1	9:30	61	WAMU 11/3/22
61	11/1	9:30	62	WAMU 11/3/22
62	11/1	9:30	63	WAMU 11/3/22
63	11/1	9:30	64	WAMU 11/3/22
64	11/1	9:30	65	WAMU 11/3/22
65	11/1	9:30	66	WAMU 11/3/22
66	11/1	9:30	67	WAMU 11/3/22
67	11/1	9:30	68	WAMU 11/3/22
68	11/1	9:30	69	WAMU 11/3/22
69	11/1	9:30		

3					11
2					102

Revised Date: 08/25/2020 Rev. 1020.2

$$\frac{20}{25}$$

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 880-35214-2

SDG Number: KH227025

Login Number: 35214

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 29, 2024

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/23/24 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/23/2024  
 Reported: 02/29/2024  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: TANK - 5 - E 9.5' (H240918-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	1.11	
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	110	2.00	1.72	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.45	108	6.00	1.76	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	02/28/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	213	106	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





---

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Joseph Guesnier  
Terracon Consulting Eng & Scientists  
5847 50th St  
Lubbock, Texas 79424  
Generated 10/17/2023 2:53:15 PM

## JOB DESCRIPTION

Folk 11 State  
SDG NUMBER KH 227025

## JOB NUMBER

890-5455-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
10/17/2023 2:53:15 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440



# Eurofins Carlsbad

## Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

### Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334.

H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Laboratory Job ID: 890-5455-1  
SDG: KH 227025

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## Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

**Job ID: 890-5455-1**

**Laboratory: Eurofins Carlsbad**

### Narrative

#### Job Narrative 890-5455-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 10/13/2023 12:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: TANK 5-W (890-5455-1) and TANK 4-W (890-5455-2).

### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64789 and analytical batch 880-64805 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

Client Sample ID: TANK 5-W

Lab Sample ID: 890-5455-1

Date Collected: 10/12/23 12:28

Matrix: Solid

Date Received: 10/13/23 12:46

Sample Depth: 4'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/23 08:37	10/16/23 13:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/23 08:37	10/16/23 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/16/23 08:37	10/16/23 13:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/16/23 08:37	10/16/23 13:24	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/16/23 13:24	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/16/23 15:03	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/16/23 10:59	10/16/23 15:03	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/16/23 10:59	10/16/23 15:03	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/16/23 10:59	10/16/23 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	10/16/23 10:59	10/16/23 15:03	1
o-Terphenyl	85		70 - 130	10/16/23 10:59	10/16/23 15:03	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		4.97		mg/Kg			10/16/23 15:21	1

Client Sample ID: TANK 4-W

Lab Sample ID: 890-5455-2

Date Collected: 10/12/23 10:49

Matrix: Solid

Date Received: 10/13/23 12:46

Sample Depth: 6'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
Ethylbenzene	0.00214		0.00199		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
o-Xylene	0.00301		0.00199		mg/Kg		10/16/23 08:37	10/16/23 12:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/23 08:37	10/16/23 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/16/23 08:37	10/16/23 12:02	1

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## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

Client Sample ID: TANK 4-W

Lab Sample ID: 890-5455-2

Date Collected: 10/12/23 10:49

Matrix: Solid

Date Received: 10/13/23 12:46

Sample Depth: 6'

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	10/16/23 08:37	10/16/23 12:02	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00515		0.00398		mg/Kg			10/16/23 12:02	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/16/23 15:26	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/16/23 10:59	10/16/23 15:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/16/23 10:59	10/16/23 15:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/16/23 10:59	10/16/23 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				10/16/23 10:59	10/16/23 15:26	1
o-Terphenyl	82		70 - 130				10/16/23 10:59	10/16/23 15:26	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.97		mg/Kg			10/16/23 15:26	1

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## Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-5455-1	TANK 5-W	98	79
890-5455-1 MS	TANK 5-W	119	94
890-5455-1 MSD	TANK 5-W	113	113
890-5455-2	TANK 4-W	115	87
LCS 880-64769/1-A	Lab Control Sample	119	112
LCSD 880-64769/2-A	Lab Control Sample Dup	112	114
MB 880-64769/5-A	Method Blank	78	90

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-5455-1	TANK 5-W	80	85
890-5455-2	TANK 4-W	80	82
890-5457-A-1-F MS	Matrix Spike	82	72
890-5457-A-1-G MSD	Matrix Spike Duplicate	82	71
LCS 880-64788/2-A	Lab Control Sample	97	99
LCSD 880-64788/3-A	Lab Control Sample Dup	99	93
MB 880-64788/1-A	Method Blank	93	98

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64769/5-A

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/23 08:37	10/16/23 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/16/23 08:37	10/16/23 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	10/16/23 08:37	10/16/23 11:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/16/23 08:37	10/16/23 11:20	1

Lab Sample ID: LCS 880-64769/1-A

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09322		mg/Kg		93	70 - 130
Toluene	0.100	0.09263		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2221		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-64769/2-A

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09816		mg/Kg		98	70 - 130	5	35
Toluene	0.100	0.09206		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.09430		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2044		mg/Kg		102	70 - 130	8	35
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 890-5455-1 MS

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: TANK 5-W

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.1041		mg/Kg		104	70 - 130
Toluene	<0.00201	U	0.0998	0.1002		mg/Kg		100	70 - 130

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-5455-1 MS

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: TANK 5-W

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.1051		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2264		mg/Kg		113	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1122		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-5455-1 MSD

Matrix: Solid

Analysis Batch: 64759

Client Sample ID: TANK 5-W

Prep Type: Total/NA

Prep Batch: 64769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08916		mg/Kg		89	70 - 130	15	35
Toluene	<0.00201	U	0.100	0.08403		mg/Kg		84	70 - 130	18	35
Ethylbenzene	<0.00201	U	0.100	0.08680		mg/Kg		87	70 - 130	19	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1859		mg/Kg		93	70 - 130	20	35
o-Xylene	<0.00201	U	0.100	0.09348		mg/Kg		93	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-64788/1-A

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/16/23 08:00	10/16/23 08:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/16/23 08:00	10/16/23 08:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/16/23 08:00	10/16/23 08:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	10/16/23 08:00	10/16/23 08:49	1
o-Terphenyl	98		70 - 130	10/16/23 08:00	10/16/23 08:49	1

Lab Sample ID: LCS 880-64788/2-A

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	881.8		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	915.4		mg/Kg		92	70 - 130

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-64788/2-A

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64788

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-64788/3-A

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64788

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	866.4		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	877.5		mg/Kg		88	70 - 130	4	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: 890-5457-A-1-F MS

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	991	734.8		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	991	703.9		mg/Kg		71	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	72		70 - 130								

Lab Sample ID: 890-5457-A-1-G MSD

Matrix: Solid

Analysis Batch: 64753

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	991	733.4		mg/Kg		71	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	991	712.2		mg/Kg		72	70 - 130	1	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	71		70 - 130								

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## QC Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64789/1-A

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/16/23 13:42	1

Lab Sample ID: LCS 880-64789/2-A

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-64789/3-A

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.7		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-34454-A-1-B MS

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10200	F1	5020	17030	F1	mg/Kg		136	90 - 110

Lab Sample ID: 880-34454-A-1-C MSD

Matrix: Solid

Analysis Batch: 64805

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10200	F1	5020	17010	F1	mg/Kg		136	90 - 110	0	20

Eurofins Carlsbad

## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## GC VOA

## Analysis Batch: 64759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	8021B	64769
890-5455-2	TANK 4-W	Total/NA	Solid	8021B	64769
MB 880-64769/5-A	Method Blank	Total/NA	Solid	8021B	64769
LCS 880-64769/1-A	Lab Control Sample	Total/NA	Solid	8021B	64769
LCSD 880-64769/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64769
890-5455-1 MS	TANK 5-W	Total/NA	Solid	8021B	64769
890-5455-1 MSD	TANK 5-W	Total/NA	Solid	8021B	64769

## Prep Batch: 64769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	5035	
890-5455-2	TANK 4-W	Total/NA	Solid	5035	
MB 880-64769/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64769/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64769/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5455-1 MS	TANK 5-W	Total/NA	Solid	5035	
890-5455-1 MSD	TANK 5-W	Total/NA	Solid	5035	

## Analysis Batch: 64829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	Total BTEX	
890-5455-2	TANK 4-W	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 64753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	8015B NM	64788
890-5455-2	TANK 4-W	Total/NA	Solid	8015B NM	64788
MB 880-64788/1-A	Method Blank	Total/NA	Solid	8015B NM	64788
LCS 880-64788/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64788
LCSD 880-64788/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64788
890-5457-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	64788
890-5457-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64788

## Prep Batch: 64788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	8015NM Prep	
890-5455-2	TANK 4-W	Total/NA	Solid	8015NM Prep	
MB 880-64788/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64788/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64788/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5457-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5457-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 64871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Total/NA	Solid	8015 NM	
890-5455-2	TANK 4-W	Total/NA	Solid	8015 NM	

Eurofins Carlsbad



## QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## HPLC/IC

## Leach Batch: 64789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Soluble	Solid	DI Leach	
890-5455-2	TANK 4-W	Soluble	Solid	DI Leach	
MB 880-64789/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64789/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64789/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34454-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34454-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 64805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5455-1	TANK 5-W	Soluble	Solid	300.0	64789
890-5455-2	TANK 4-W	Soluble	Solid	300.0	64789
MB 880-64789/1-A	Method Blank	Soluble	Solid	300.0	64789
LCS 880-64789/2-A	Lab Control Sample	Soluble	Solid	300.0	64789
LCSD 880-64789/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64789
880-34454-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	64789
880-34454-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64789

## Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

## Client Sample ID: TANK 5-W

Date Collected: 10/12/23 12:28

Date Received: 10/13/23 12:46

## Lab Sample ID: 890-5455-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	64769	10/16/23 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64759	10/16/23 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64829	10/16/23 13:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			64871	10/16/23 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64788	10/16/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64753	10/16/23 15:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64789	10/16/23 11:34	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64805	10/16/23 15:21	CH	EET MID

## Client Sample ID: TANK 4-W

Date Collected: 10/12/23 10:49

Date Received: 10/13/23 12:46

## Lab Sample ID: 890-5455-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	64769	10/16/23 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64759	10/16/23 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64829	10/16/23 12:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			64871	10/16/23 15:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	64788	10/16/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64753	10/16/23 15:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64789	10/16/23 11:34	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64805	10/16/23 15:26	CH	EET MID

## Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

## Method Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad



Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: Folk 11 State

Job ID: 890-5455-1  
SDG: KH 227025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5455-1	TANK 5-W	Solid	10/12/23 12:28	10/13/23 12:46	4'
890-5455-2	TANK 4-W	Solid	10/12/23 10:49	10/13/23 12:46	6'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
Corpus Christi, TX (361) 585-5443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Environment Testing



Work Order No:

www.xenco.com Page of

Project Manager:	Joseph Guenier	Bill to: (if different)	SPR
Company Name:	TERRACON	Company Name:	SPR
Address:	4518 W Pierce St	Address:	
City, State ZIP:	88220, Carlsbad NM	City, State ZIP:	
Phone:		Email:	

Project Name:	FolkM State	Turn Around		Pres. Code	
Project Number:	KH227025	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location:		Due Date:	48 hour		
Sampler's Name:	Gus Sanchez	TAT starts the day received by the lab, if received by 4:30pm			
P.O. #:		Temp Blank:	Yes No	Wet Ice:	Yes No
SAMPLE RECEIPT		Thermometer ID:	TMM007		
Samples Received Intact:	Yes No	Correction Factor:	-0.2		
Cooler Custody Seals:	Yes No	Temperature Reading:	3.0		
Sample Custody Seals:	Yes No	Corrected Temperature:	-2.8		
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
Tank 5 - W	Soil	10-12-23	12:28	4'	Grab	1	Chloride (EPA300)		None: NO	
Tank 4 - W	Soil	10-12-23	10:49	6'	Grab	1	TPH (8015)		Cool: Cool	
							BTEX (8018)		HCL: HC	
									H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	
									H <sub>3</sub> PO <sub>4</sub> : HP	
									NaHSO <sub>4</sub> : NABIS	
									Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
									Zn Acetate+NaOH: Zn	
									NaOH+Ascorbic Acid: SACP	

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	10-13	12:46

Revised Date: 08/25/2020 Rev. 2020.2

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5455-1

SDG Number: KH 227025

Login Number: 5455

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng &amp; Scientists

Job Number: 890-5455-1

SDG Number: KH 227025

**Login Number: 5455****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 10/16/23 08:35 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 23, 2024

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/21/24 14:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 08/21/2024  
 Reported: 08/23/2024  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 08/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E - 1 ( 1' ) (H245099-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2024	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	08/22/2024	ND	2.04	102	2.00	3.23	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.05	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.09	102	6.00	4.65	
Total BTX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/22/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	209	105	200	9.73	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	202	101	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 08/21/2024  
 Reported: 08/23/2024  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 08/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NE - 1 ( 1' ) (H245099-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.11	106	2.00	2.30		
Toluene*	<0.050	0.050	08/22/2024	ND	2.04	102	2.00	3.23		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.05	103	2.00	4.39		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.09	102	6.00	4.65		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	209	105	200	9.73	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	202	101	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 08/21/2024  
 Reported: 08/23/2024  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 08/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SE - 1 ( 1' ) (H245099-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2024	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	08/22/2024	ND	2.04	102	2.00	3.23	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.05	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.09	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	209	105	200	9.73	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	202	101	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





---

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Terracon <b>Project Manager:</b> Joseph Guerin <b>Address:</b> City: Leekslake State: NM Zip: 88120 Phone #: Fax #:				<b>BILL TO</b> P.O. #: KH227025 Company: Spur Energy Attn: Kathy Davis Address: City: State: Zip: Phone #: 575-441-8819 Fax #:				<b>ANALYSIS REQUEST</b>											
<b>Project Name:</b> Folk II <b>Project Location:</b> <b>Sample Name:</b> Joseph Guerin FOR LAB USE ONLY																			
<b>Lab I.D.</b> Sample I.D.				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				MATRIX PRESERV SAMPLING											
H245009 1 2 3 BE-1 (1) NE-1 (1) SE-1 (1)				6 1 6 1 6 1				DATE 8/21/24 12:50 12:55 12:10				TIME 12:50 12:55 12:10				Chloride TPH BTEX			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C: 3.9 Corrected Temp. °C: 3.3				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials)							
Delinquished By:				Date: 8-21-24 Time: 1450 Received By:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: 506-544-9276 All Results are emailed. Please provide Email address:				Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C							
Delinquished By:				Date: 8-21-24 Time: 1450 Received By:				REMARKS:				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No							



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

February 11, 2025

BRUCE BAKER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A7 - W - SW 0-2 (H250800-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTEX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A7 - FS 2 (H250800-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 11, 2025

BRUCE BAKER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A1 - W - SW 0-4 (H250801-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	1.82	90.9	2.00	5.81	
Toluene*	<0.050	0.050	02/10/2025	ND	1.88	94.1	2.00	5.75	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	1.79	89.3	2.00	5.68	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	5.25	87.5	6.00	5.61	
Total BTEX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A1, B1 - S - SW 0-4 (H250801-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	1.82	90.9	2.00	5.81		
Toluene*	<0.050	0.050	02/10/2025	ND	1.88	94.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	1.79	89.3	2.00	5.68		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	5.25	87.5	6.00	5.61		
Total BTEX	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A1, B1 FS 4 (H250801-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	1.82	90.9	2.00	5.81		
Toluene*	<0.050	0.050	02/10/2025	ND	1.88	94.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	1.79	89.3	2.00	5.68		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	5.25	87.5	6.00	5.61		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	218	109	200	0.526	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	210	105	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 11, 2025

BRUCE BAKER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 12, B 13 - W - SW 0-4 (H250798-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTEX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 12, FS 4 (H250798-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTX	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: C12, C13 - E - SW 0-4 (H250798-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTEX	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: C13 - FS 4 (H250798-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
FAX (575) 283 2476

**(575) 393-2326 FAX (575) 393-2476**

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Terracon <b>Project Manager:</b> Bruce Baker <b>Address:</b> 4526 W. Pierce Street <b>City:</b> Carlsbad <b>Phone #:</b> 5756895949 <b>Fax #:</b> <b>Project #:</b> KH227025 <b>Project Name:</b> Folk 11 <b>Project Location:</b> Eddy <b>Sample Name:</b> Travis Casey <small>FOR LAB USE ONLY</small>				<b>BILL TO:</b> <b>P.O. #:</b> <b>Company:</b> Terracon <b>Attn:</b> Bruce Baker <b>Address:</b> 4526 W. Pierce St <b>City:</b> Carlsbad <b>State:</b> NM, 88220 <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYS REQUEST</b>			
<b>State:</b> NM <b>Zip:</b> 88220 <b>Project Owner:</b> Spur Energy				<b>Matrix:</b> <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : <b>ACID/BASE:</b> <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :				<b>Preserv.</b> <input type="checkbox"/> DATE <input type="checkbox"/> TIME			
<b>Lab I.D.</b> H50798				<b>Sample I.D.</b>				<b>Chloride (EPA Method 4500)</b> <b>TPH Extended 8015</b> <b>BTEX (EPA Method 8021B)</b> <b>Hold</b>			
<b>Depth</b> Start    End (G)RAB OR (C)OM				<b># CONTAINERS</b>				<b>DATE</b> <b>TIME</b>			
B12, B13 - W - SW 0    4    C    1 4    4    C    1 B12 - FS 0    4    C    1 C12, C13 - E - SW 4    4    C    1 C13 - FS				X    X    X    X X    X    X    X X    X    X    X X    X    X    X X    X    X    X X    X    X    X				02/10/25    9:55 02/10/25    9:57 02/10/25    10:00 02/10/25    10:05			
<b>Relinquished By:</b> [Signature]				<b>Date:</b> 2-10-25 <b>Received By:</b> [Signature]				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>			
<b>Relinquished By:</b> [Signature]				<b>Date:</b> 2/10/25 <b>Received By:</b> [Signature]				<b>REMARKS:</b> Cost Code: #1080791001			
<b>Delivered By:</b> (Circle One) Sampler - UPS    - Bus    - Other:				<b>Observed Temp:</b> 5.5°C <b>Corrected Temp:</b> 5.8°C				<b>Sample Condition:</b> Cool    Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No			
<b>Turnaround Time:</b> Standard <input type="checkbox"/> Bacteria (only) Sample Condition #140 +0.3 <input type="checkbox"/> Cool <input type="checkbox"/> Observed Temp. °C Thermometer ID #113 <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C Correction Factor -0.5°C <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr				<b>Turnaround Time:</b> Standard <input type="checkbox"/> Bacteria (only) Sample Condition #140 +0.3 <input type="checkbox"/> Cool <input type="checkbox"/> Observed Temp. °C Thermometer ID #113 <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C Correction Factor -0.5°C <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr				<b>Turnaround Time:</b> Standard <input type="checkbox"/> Bacteria (only) Sample Condition #140 +0.3 <input type="checkbox"/> Cool <input type="checkbox"/> Observed Temp. °C Thermometer ID #113 <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C Correction Factor -0.5°C <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr			





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

February 11, 2025

BRUCE BAKER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: FOLK 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A4, A6, - W - SW 0-4 (H250799-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525	
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01	
Total BTEX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A4 - FS 5 (H250799-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/11/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 BRUCE BAKER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/10/2025  
 Reported: 02/11/2025  
 Project Name: FOLK 11 BATTERY  
 Project Number: KH227025  
 Project Location: SPUR - EDDY CO

Sampling Date: 02/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: A6 - FS 5 (H250799-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.05	102	2.00	0.525		
Toluene*	<0.050	0.050	02/10/2025	ND	2.14	107	2.00	0.937		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.17	108	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	6.61	110	6.00	1.01		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/11/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## **APPENDIX E – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE**

### **Standard of Care**

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Spur Energy Partners LLC, as reflected in our Scope of Work Bid Request for incident number nAPP2232679528.

### **Additional Scope Limitations**

The development of this Closure Report is based on information provided by Spur Energy Partners LLC, and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by Spur Energy Partners LLC. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

### **Reliance**

This report has been prepared for the exclusive use of Spur Energy Partners LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Spur Energy Partners LLC and Terracon. Any unauthorized distribution or reuse is at Spur Energy Partners LLC's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Spur Energy Partners LLC and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Spur Energy Partners LLC and all relying parties unless otherwise agreed in writing.

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

QUESTIONS

Action 508878

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2232679528
Incident Name	NAPP2232679528 FOLK STATE 11 BATTERY @ FAPP2201051330
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2201051330] Folk State 11 Tank Battery

**Location of Release Source**

Please answer all the questions in this group.

Site Name	FOLK STATE 11 BATTERY
Date Release Discovered	11/22/2022
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Corrosion   Fitting   Crude Oil   Released: 27 BBL   Recovered: 25 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Release caused by corrosion of a pipe fitting on the circulating line



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QUESTIONS, Page 2

Action 508878

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	n/a

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 09/24/2025
--	--

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QUESTIONS, Page 3

Action 508878

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	288
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1536
GRO+DRO (EPA SW-846 Method 8015M)	1260
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	04/25/2025
On what date will (or did) the final sampling or liner inspection occur	07/17/2025
On what date will (or was) the remediation complete(d)	05/30/2025
What is the estimated surface area (in square feet) that will be reclaimed	1763
What is the estimated volume (in cubic yards) that will be reclaimed	264
What is the estimated surface area (in square feet) that will be remediated	1763
What is the estimated volume (in cubic yards) that will be remediated	264
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 508878

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	<a href="#">fEEM0112342028 LEA LAND LANDFILL</a>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: <a href="mailto:katherine.purvis@spurenergy.com">katherine.purvis@spurenergy.com</a> Date: 09/24/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 508878

QUESTIONS (continued)

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:  328947
	Action Number:  508878
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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QUESTIONS, Page 6

Action 508878

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	484733
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/17/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1763
What was the total volume (cubic yards) remediated	264
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1763
What was the total volume (in cubic yards) reclaimed	264
Summarize any additional remediation activities not included by answers (above)	CONTAMINATED SOIL WAS REMOVED TO MEET THE MOST STRINGENT STANDARDS SET FORTH BY NMOCD
<i>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 (in .pdf format) 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.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: <a href="mailto:katherine.purvis@spurenergy.com">katherine.purvis@spurenergy.com</a> Date: 09/24/2025

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QUESTIONS, Page 7

Action 508878

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 508878

**CONDITIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Remediation closure is approved.	9/30/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	9/30/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/30/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	9/30/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/30/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	9/30/2025