

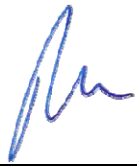
# Remediation Summary & Soil Closure Request

## Permian Resources Outland 14-23 State 2BS 2H

Lea County, New Mexico  
Unit Letter D, Section 14, Township 21 South, Range 34 East  
Latitude 32.486037 North, Longitude 103.445132 West  
NMOCD Reference No. NOY1831140454 (1RP-5260)

Prepared By:

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Outland 14-23 State 2BS 2H (henceforth, "Site"). On or around November 19, 2019, while the facility was owned by an alternative operator, a *Workplan* was prepared and submitted to the New Mexico Oil Conservation Division (NMOCD) proposing remediation activities designed to advance the Site toward an approved closure; the *Workplan* was subsequently approved. Based on field observations made during the remediation of a more recent release (nAPP2328345879) and lack of environmental records, it is inferred historical remediation activities were not conducted. Impacts related to nOY1831140454 and nAPP2328345879 were remediated concurrently. Details of the release are summarized below:

<b>Location of Release Source</b>				
Latitude:	32.486037	Longitude:	-103.445132	
Provided GPS are in WGS84 format.				
Site Name: Outland 14-23 State 2BS 2H		Site Type: Tank Battery		
Date Release Discovered: 10/21/2018		API # (if applicable): 30-025-44157		
Unit Letter	Section	Township	Range	County
D	14	21S	34E	Lea
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
<b>Nature and Volume of Release</b>				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)	0	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	30	Volume Recovered (bbls)	10
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
<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	Volume/Weight Recovered		
Cause of Release: The release was attributed to equipment failure.				
<b>Initial Response</b>				
<input checked="" type="checkbox"/> The source of the release has been stopped.				
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.				
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices				
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the NMOCD Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 75 and 100 (ft.)
What method was used to determine the depth to groundwater?	NM OSE iWaters Database Search
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
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 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 1 and 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?	Greater than 5 (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Greater than 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater and NMOCD siting information is provided as Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4 and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 75 and 100 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

\*\* Environmental Protection Agency

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4" of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.



## 4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	12/1/2023	
On what date will (or did) the final sampling or liner inspection occur?	10/16/2024	
On what date will (or was) the remediation complete(d)?	10/29/2024	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	25,700	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	3,398	
What was the total surface area (sq. ft.) that has or will be remediated?	25,700	
What was the total volume (cy) that has or will be remediated?	6,280	
This remediation utilized the following processes to remediate/reduce contaminants:		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes/Fertilizer, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	Lea Land, Inc.	
NMOCD Disposal Facility ID?	fEEM0112342028	
Summarize any additional remediation activities not included by answers above.	See below	

Between December 1, 2023, and June 3, 2024, remediation activities were conducted at the Site by an alternative environmental contractor. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and temporarily stockpiled on-site, then transferred to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	20,400	SW-52	4/12/2024	5-6	Excavated/Disposed
TPH	1,260	SW-36	12/15/2023	0-3	Excavated/Disposed
GRO+DRO	1,260	SW-36	12/15/2023	0-3	Excavated/Disposed
BTEX	2.49	CS-60	12/15/2023	3	Excavated/Disposed
Benzene	<Method Detection Limit	All submitted samples	All dates	All Depths	N/A

Please reference Table 1 for additional information.

On June 21, 2024, Etech assumed remediation responsibilities at the Site. Once remediation resumed, impacted material affected above the NMOCD Closure Criteria remaining in-situ was excavated and temporarily stockpiled on-site, then transferred to an NMOCD-permitted surface waste facility for disposal. Between December 1, 2023, and October 16, 2024, two hundred and sixty-five (265) confirmation soil samples were collected from the floor and sidewalls of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Impacted areas characterized by soil samples exhibiting BTEX, TPH, and/or chloride concentrations above the applicable NMOCD Closure Criteria were excavated and resampled, as necessary.

Equipment on at the Site made further remediation impossible. Once the equipment had been removed, sidewall soil samples that were previously established for deferral purposes (SW10, SW12A, SW21, SW22, SW46, SW53, SW54, SW60) were advanced. The soils that represented these sidewalls were excavated and taken to an NMOCD surface waste facility.

The final dimensions of the excavated area were approximately two hundred and thirty (230) feet in length, fifty-five (55) to one hundred and thirty five (135) feet in width, and one (1) to twenty-nine (29) feet in depth. During the course of remediation activities, approximately six-thousand two hundred eighty (6,280) cubic yards of impacted soil were transported to an NMOCD-permitted surface waste facility for disposal. An equal amount of locally sourced, non-impacted material was imported to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the site are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	<div>25,700</div>	
What was the total volume (cy) remediated?	<div>6,280</div>	

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Permian Resources provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Site.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	25,700	
What was the total volume (in cubic yards) reclaimed?	3,398	

On September 4, 2024, in accordance with the NMOCD requirements, a 5-point composite soil sample (Merchant Outland Pit) was collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

The release was limited to the production pad of an active facility and did not impact the adjacent pasture. Final reclamation will be conducted in accordance with the NMSLO requirements upon decommissioning and abandonment of the facility.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Permian Resources. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources.

## **8.0 DISTRIBUTION**

### ***Permian Resources***

*300 N. Marienfeld St. Suite 100  
Midland, TX 79701*

### ***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 1  
1220 South St. Francis Drive  
Santa Fe, NM 87505*

### ***Hobbs Field Office***

*New Mexico State Land Office  
2827 North Dal Paso Street  
Suite 117  
Hobbs, NM 88240*

*(Electronic Submission)*

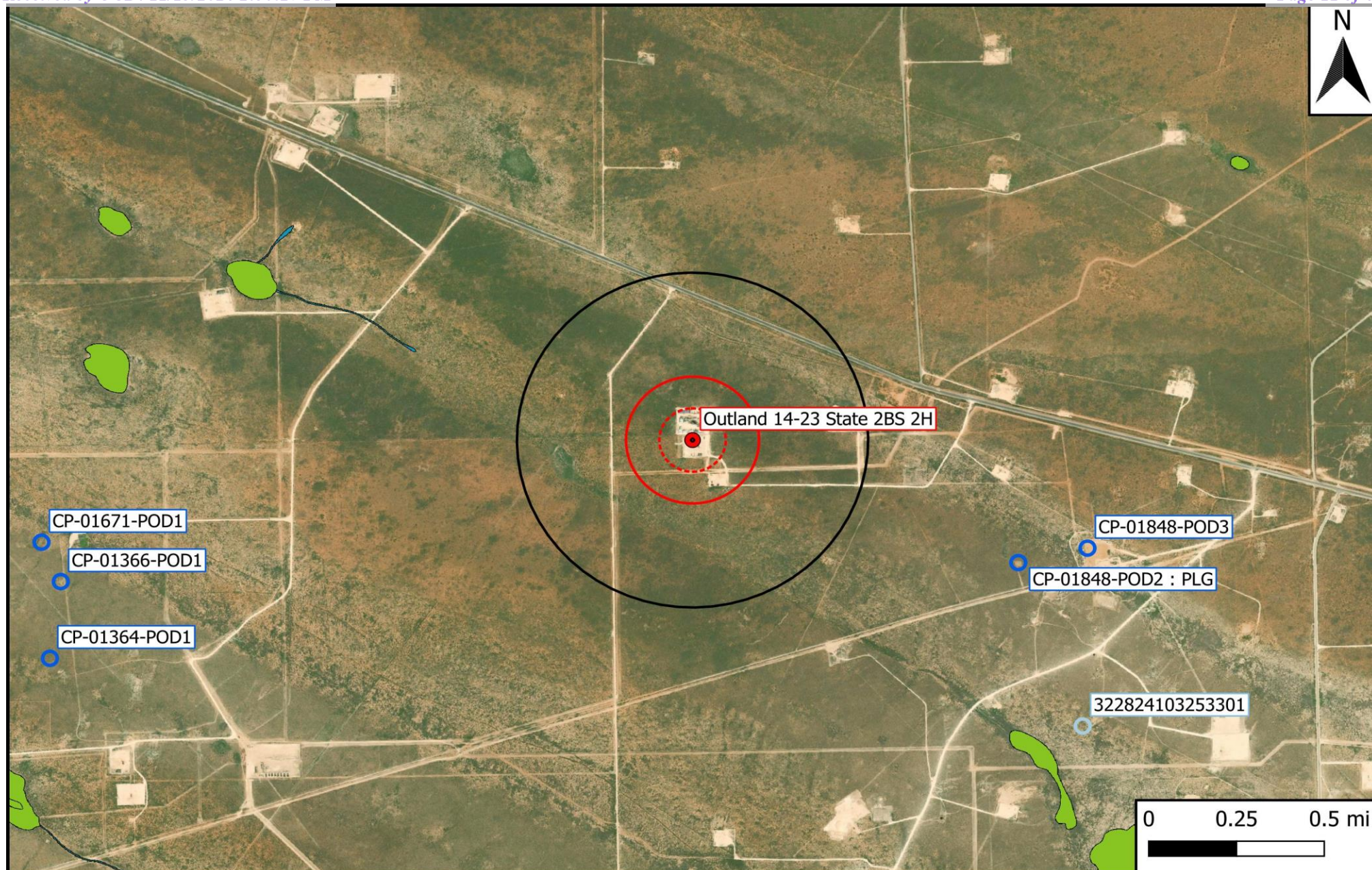
# **Figure 1**

## **Topographic Map**

## **Figure 2**

### **Aerial Proximity Map**





## Legend

- |   |   |
|---|---|
| <span style="color: red;">●</span> Site Location  | <span style="border: 1px dashed red; padding: 2px;"> </span> 500 Ft Radius  |
| <span style="color: blue;">○</span> Well - NMOSE  | <span style="border: 1px solid red; padding: 2px;"> </span> 1000 Ft Radius  |
| <span style="color: lightblue;">○</span> Well - USGS  | <span style="border: 1px solid black; padding: 2px;"> </span> 0.5 Mi Radius                                       |
| <span style="color: orange;">—</span> Potash Mine Workings  | <span style="background-color: lightblue; border: 1px solid black; padding: 2px;"> </span> 1% Annual Flood Chance |
| <span style="background-color: pink; border: 1px solid black; padding: 2px;"> </span> Medium/High Karst | <span style="background-color: blue; border: 1px solid black; padding: 2px;"> </span> Lake/Freshwater Pond        |
|   | <span style="background-color: green; border: 1px solid black; padding: 2px;"> </span> Emergent/Forested Wetlands |
|   | <span style="background-color: cyan; border: 1px solid black; padding: 2px;"> </span> Riverine                    |

## Figure 2

Aerial Proximity Map  
 Permian Resources  
 Outland 14-23 State 2BS 2H  
 GPS: 32.486037, -103.445132  
 Lea County



Drafted: mag

Checked: jwl

Date: 6/21/24



## **Figure 3**

### **Sample Location Map**





Legend:	
	Excavated Area
SW-48	Sidewall Sample Location
SW-35	Confirmation Soil Sample

**Figure 1**

Site Diagram  
 Outland 14-23 State 2BS 2H  
 Permian Resources  
 GPS: 32.486037, -103.445132

**eTECH**  
 Environmental & Safety Solutions, Inc.

Drafted: jwl    Checked: bja    Date: 11/1/24

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Permian Resources**  
**Outland 14-23 State 2BS 2H**  
**NMOCD Ref. #: NOY1831140454 (1RP-5260)**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
CS-1	12/1/2023	1	In-Situ	<0.050	<0.300	<10.0	25.5	25.5	<10.0	25.5	272
CS-2	12/1/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-3	12/1/2023	1	In-Situ	<0.050	<0.300	<10.0	45.0	45.0	<10.0	45.0	544
CS-4	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS-5	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-6	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-7	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-8	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-9	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-10	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-11	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	14.0	14.0	<10.0	14.0	240
CS-12	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-13	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-14	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-15	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-16	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-17	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-18	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
CS-19	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	36.8	36.8	<10.0	36.8	528
CS-20	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	191	191	<10.0	191	272
CS-20A	4/12/2024	5	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	129
CS-21	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	304	304	<10.0	304	448
CS-21A	4/12/2024	5	In-Situ	<0.00200	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	161
CS-22	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	21.1	21.1	<10.0	21.1	352
CS-23	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS-24	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	19.8	19.8	<10.0	19.8	768
CS-24A	4/12/2024	5	Excavated	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	930
CS - 24B @ 5'	10/14/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
CS-25	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	31.6	31.6	<10.0	31.6	224
CS-26	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	17.7	17.7	<10.0	17.7	128
CS-27	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	10.3	10.3	<10.0	10.3	64.0
CS-28	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	241	241	68.1	309	4,640
CS-28A	4/12/2024	6	Excavated	<0.00200	<0.00399	<49.7	58.2	58.2	<49.7	58.2	14,200
CS 28 A @ 12'	10/16/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
CS-29	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	26.4	26.4	<10.0	26.4	2,200
CS-29A	4/12/2024	6	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	626
CS 29 A @ 12'	10/16/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
CS-30	12/4/2023	4	In-Situ	<0.050	<0.300	<10.0	10.3	10.3	<10.0	10.3	304
CS-31	12/4/2023	4	In-Situ	<0.050	<0.300	<10.0	11.4	11.4	<10.0	11.4	528
CS-32	12/4/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS-33	12/4/2023	6	Excavated	<0.050	<0.300	<10.0	22.3	22.3	<10.0	22.3	2,840

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Permian Resources**  
**Outland 14-23 State 2BS 2H**  
**NMOCD Ref. #: NOY1831140454 (1RP-5260)**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
CS-33A	4/12/2024	9	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	313
CS-34	12/4/2023	6	Excavated	<0.050	<0.300	<10.0	770	770	<10.0	770	1,260
CS-34A	4/12/2024	9	In-Situ	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	259
CS-35	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	16.0	16.0	<10.0	16.0	160
CS-36	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
CS-37	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,440
CS-37A	4/12/2024	12	In-Situ	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3	<50.3	279
CS-38	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	16.0	16.0	<10.0	16.0	560
CS-39	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-40	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	32.4	32.4	<10.0	32.4	288
CS-41	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	51.9	51.9	<10.0	51.9	240
CS-42	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	181	181	<10.0	181	448
CS-42A	4/12/2024	10	In-Situ	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	304
CS-43	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	135	135	<10.0	135	496
CS-43A	4/12/2024	10	Excavated	<0.00202	<0.00404	<50.4	171	171	<50.4	171	374
CS 43 B @ 10'	8/27/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
CS-44	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS-45	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-46	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	85.6	85.6	<10.0	85.6	496
CS-47	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	102	102	<10.0	102	688
CS-47A	4/12/2024	10	Excavated	<0.00200	<0.00399	<50.1	216	216	<50.1	216	137
CS 47 B @ 7'	8/27/2024	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
CS-48	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	87.6	87.6	<10.0	87.6	416
CS-49	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	170	170	<10.0	170	944
CS-49A	4/12/2024	10	In-Situ	<0.00198	<0.00396	<50.5	74.9	74.9	<50.5	74.9	208
CS-50	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-51	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	27.3	27.3	<10.0	27.3	400
CS-52	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	16.9	16.9	<10.0	16.9	368
CS-53	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	64.1	64.1	<10.0	64.1	112
CS-54	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	28.9	28.9	<10.0	28.9	64.0
CS-55	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-56	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	70.8	70.8	<10.0	70.8	80.0
CS-57	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	114	114	<10.0	114	32.0
CS-57A	4/12/2024	4	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	237
CS-58	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	22.5	22.5	<10.0	22.5	48.0
CS-59	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	41.8	41.8	<10.0	41.8	48.0
CS-60	12/15/2023	3	Excavated	<0.050	2.49	<10.0	695	695	62.0	757	112
CS-60A	4/12/2024	5	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	477
CS-61	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	112	112	<10.0	122	80.0
CS-61A	4/12/2024	5	Excavated	<0.00201	<0.00402	<49.8	753	753	<49.8	753	481
CS 61 B @ 6'	8/26/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.



**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Permian Resources**  
**Outland 14-23 State 2BS 2H**  
**NMOCD Ref. #: NOY1831140454 (1RP-5260)**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
CS-62	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	16.0	16.0	<10.0	16.0	288
CS-63	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	82.9	82.9	<10.0	82.9	144
CS-64	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	242	242	<10.0	242	96.0
CS-64A	4/12/2024	4	In-Situ	<0.00200	<0.00401	<50.3	50.8	50.8	<50.3	50.8	150
CS-65	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	111	111	<10.0	111	32.0
CS-65A	4/12/2024	5	In-Situ	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	102
CS-66	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	183	183	<10.0	183	320
CS-66A	4/12/2024	5	In-Situ	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	69.1
CS-67	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	21.2	21.2	<10.0	21.2	<16.0
CS-68	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	43.7	43.7	<10.0	43.7	400
CS-69	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	79.8	79.8	<10.0	79.8	144
CS-70	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-71	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-72	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-73	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-74	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-75	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-76	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-77	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-78	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS-79	12/15/2023	5	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
CS-79A	4/12/2024	6	Excavated	<0.00198	<0.00396	<50.5	74.3	74.3	<50.5	74.3	7,240
CS 79 B @ 11'	8/28/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
CS-80	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-81	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-82	12/15/2023	5	Excavated	<0.050	<0.300	<10.0	22.8	22.8	<10.0	22.8	1,260
CS-82A	4/12/2024	9	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,510
CS 82 B @ 10'	8/27/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
CS-83	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-84	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-85	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS-86	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-87	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-88	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-89	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-90	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
CS-91	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS-92	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-93	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-94	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-95	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Permian Resources**  
**Outland 14-23 State 2BS 2H**  
**NMOCD Ref. #: NOY1831140454 (1RP-5260)**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
CS-96	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-97	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-98	12/15/2023	2	Excavated	<0.050	<0.300	<10.0	92.7	92.7	20.5	113	3,440
CS-98A	4/12/2024	5	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,370
CS - 98A @ 13'	10/14/2024	13	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CS-99	12/15/2023	2	Excavated	<0.050	<0.300	<10.0	44.1	44.1	<10.0	44.1	1,920
CS-99A	4/12/2024	5	Excavated	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	2,810
CS - 99A @ 12'	10/14/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
CS-100	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-101	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-102	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-103	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-104	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	16.5	16.5	<10.0	16.5	128
CS-105	12/15/2023	15	Excavated	<0.050	<0.300	<10.0	32.4	32.4	<10.0	32.4	3,040
CS 105 @ 29'	10/16/2024	29	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CS-106	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-107	4/12/2024	5	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	52.7
CS-108	4/12/2024	3	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	617
CS - 108 @ 2'	10/14/2024	2	In-Situ	<0.050	<0.300	<10.0	13.8	13.8	<10.0	13.8	272
CS-109	4/12/2024	9	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	196
CS-110	4/12/2024	5	In-Situ	<0.00200	<0.00400	<50.2	<50.2	<50.2	<50.2	<50.2	185
CS 111 @ 12'	10/14/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
CS 112 @ 13'	10/14/2024	13	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CS 113 @ 12'	10/14/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
CS 114 @ 12'	10/14/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CS 115 @ 12'	10/16/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
CS 116 @ 12'	10/16/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 1 @ 10'	8/26/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
NW1	8/26/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW-1	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-2	12/15/2023	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
SW-3	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-4	12/15/2023	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW-5	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-6	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	13.4	13.4	<10.0	13.4	16.0
SW-7	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-8	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW-9	12/15/2023	0-2	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,700
SW-9A	4/12/2024	0-5	In-Situ	<0.00200	<0.00400	<50.3	<50.3	<50.3	<50.3	<50.3	104
SW-10	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,790
SW-11	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Permian Resources**  
**Outland 14-23 State 2BS 2H**  
**NMOCD Ref. #: NOY1831140454 (1RP-5260)**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 CI
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SW-12	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	308	308	66.8	375	384
SW-12A	4/12/2024	0-6	Excavated	<0.00200	<0.00401	<50.1	239	239	<50.1	239	7,590
SW-13	12/15/2023	6-9	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
SW-13A	4/12/2024	6-9	Excavated	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	2,890
SW-13B	10/16/2024	6-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW-14	12/15/2023	6-9	Excavated	<0.050	<0.300	<10.0	35.8	35.8	<10.0	35.8	1,280
SW-14A	4/12/2024	9-12	Excavated	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	1,340
SW-14B	10/16/2024	9-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW-15	12/15/2023	3-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-16	12/15/2023	3-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-17	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-18	12/15/2023	3-4	Excavated	<0.050	<0.300	<10.0	153	153	38.1	191	656
SW-18A	4/12/2024	3-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	242
SW-19	12/15/2023	0-4	In-Situ	<0.050	<0.300	<10.0	12.7	12.7	<10.0	12.7	448
SW-20	12/15/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW-21	12/15/2023	2-5	Excavated	<0.050	<0.300	<10.0	169	169	25.3	194	1,360
SW-22	12/15/2023	0-5	Excavated	<0.050	<0.300	<10.0	112	112	18.9	131	13,000
SW-23	12/15/2023	0-5	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,960
SW-23A	4/12/2024	0-5	In-Situ	<0.903	<1.80	<49.9	<49.9	<49.9	<49.9	<49.9	135
SW-24	12/15/2023	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW-25	12/15/2023	3-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-26	12/15/2023	5-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-27	12/15/2023	3-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-28	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-29	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-30	12/15/2023	0-6	Excavated	<0.050	<0.300	<10.0	167	167	11.6	179	208
SW-30A	4/12/2024	0-9	In-Situ	<0.909	<1.82	<50.1	<50.1	<50.1	<50.1	<50.1	195
SW-31	12/15/2023	0-9	Excavated	<0.050	<0.300	<10.0	239	239	<10.0	239	240
SW-31A	4/12/2024	0-9	In-Situ	<0.909	<1.82	<50.4	<50.4	<50.4	<50.4	<50.4	486
SW-32	12/15/2023	0-6	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
SW-32A	4/12/2024	0-6	Excavated	<0.902	<1.80	<50.5	75.8	75.8	<50.5	75.8	3,590
SW - 32 B	10/14/2024	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SW-33	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-34	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
SW-35	12/15/2023	3-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-36	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	1,260	1,260	<10.0	1,260	304
SW-36A	4/12/2024	0-3	Excavated	<0.905	<1.81	<49.8	281	281	<49.8	281	772
SW 36 B	8/28/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW-37	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	114	114	<10.0	114	288
SW-37A	4/12/2024	0-3	Excavated	<0.913	<1.83	<50.0	513	513	<50.0	513	118
SW 37 B	8/28/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Permian Resources**  
**Outland 14-23 State 2BS 2H**  
**NMOCD Ref. #: NOY1831140454 (1RP-5260)**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 CI
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SW-38	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	291	291	<10.0	291	272
SW-38A	4/12/2024	0-3	Excavated	<0.916	<1.83	<49.9	<49.9	<49.9	<49.9	<49.9	1,020
SW 38 E	8/26/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW-39	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,150
SW-39A	4/12/2024	0-5	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	255
SW-40	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-41	12/15/2023	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-42	12/15/2023	3-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-43	12/15/2023	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-44	12/15/2023	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-45	12/15/2023	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-46	12/15/2023	0-5	Excavated	<0.050	<0.300	<10.0	81.1	81.1	21.0	102	480
SW-47	4/12/2024	0-10	Excavated	<0.00200	<0.00401	<50.1	96.4	96.4	<50.1	96.4	712
SW 47 B	8/26/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SW-48	4/12/2024	3-4	In-Situ	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	576
SW-49	4/12/2024	3-4	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	217
SW-50	4/12/2024	3-5	In-Situ	<0.00200	<0.00399	<49.8	84.1	84.1	<49.8	84.1	293
SW-51	4/12/2024	5-9	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5,760
SW-52	4/12/2024	5-6	Excavated	<0.907	<1.81	<50.0	408	408	<50.0	408	20,400
SW 52 A	8/27/2024	5-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
SW-53	4/12/2024	0-5	Excavated	<0.902	<1.80	<50.1	137	137	<50.1	137	3,660
SW-54	4/12/2024	3-6	Excavated	<0.909	<1.82	<50.4	58.6	58.6	<50.4	58.6	13,300
SW-54B	10/16/2024	3-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW-55	4/12/2024	3-5	Excavated	<0.909	<1.82	<50.4	<50.4	<50.4	<50.4	<50.4	2,370
SW-55B	10/16/2024	3-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
SW-56	4/12/2024	3-9	In-Situ	<0.902	<1.80	<50.3	<50.3	<50.3	<50.3	<50.3	65.9
SW-57	4/12/2024	9-10	In-Situ	<0.905	<1.81	<49.7	<49.7	<49.7	<49.7	<49.7	405
SW-58	4/12/2024	4-10	In-Situ	<0.913	<1.83	<49.6	<49.6	<49.6	<49.6	<49.6	51.4
SW-59	4/12/2024	10-12	In-Situ	<0.916	<1.83	<50.0	<50.0	<50.0	<50.0	<50.0	388
SW-60	4/12/2024	9-10	Excavated	<0.900	<1.80	<50.4	243	243	<50.4	243	1,010
SW-61	4/12/2024	0-10	Excavated	<0.00200	<0.00399	<49.6	101	101	<49.6	101	570
SW 61 B	8/29/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-62	4/12/2024	6-9	Excavated	<0.00202	<0.00403	<50.2	60.0	60.0	<50.2	60.0	3,440
SW-62B	10/16/2024	6-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SW-63	4/12/2024	3-9	Excavated	<0.00200	<0.00401	<49.7	65.5	65.5	<49.7	65.5	2,440
SW-63B	10/16/2024	3-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SW-64	4/12/2024	5-6	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	42.0
SW-65	4/12/2024	5-6	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	139
TP-1	12/15/2023	0	Excavated	<0.050	<0.300	<10.0	42.3	42.3	<10.0	42.3	1,120
TP-1	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
TP-1	12/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.



<b>Table 1</b> <b>Concentrations of BTEX, TPH, and Chloride in Soil</b> <b>Permian Resources</b> <b>Outland 14-23 State 2BS 2H</b> <b>NMOCD Ref. #: NOY1831140454 (1RP-5260)</b>											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
TP-2	12/15/2023	0	In-Situ	<0.050	<0.300	<10.0	81.8	81.8	<10.0	81.8	336
TP-2	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
TP-2	12/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
TP-3	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	26.4	26.4	<10.0	26.4	16.0
TP-3	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
TP-3	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
TP-4	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
TP-4	12/15/2023	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
D-1	4/12/2024	0	Excavated	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	143
D-2	6/3/2024	7	Excavated	<0.050	<0.300	<10.0	16.6	16.6	<10.0	16.6	10,400
D-2	6/3/2024	9	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,020
D-2	6/3/2024	11	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
D-2	6/3/2024	13	Excavated	<0.050	<0.300	<10.0	20.0	20.0	13.9	33.9	64.0
D-3	6/3/2024	10	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
D-3	6/3/2024	12	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
D-4	6/3/2024	7	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,840
D-4	6/3/2024	9	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,380
D-4	6/3/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
D-4	6/3/2024	13	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Merchant Outland Pit	9/4/2024	N/A	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

Dash (-): Sample not analyzed for that constituent.

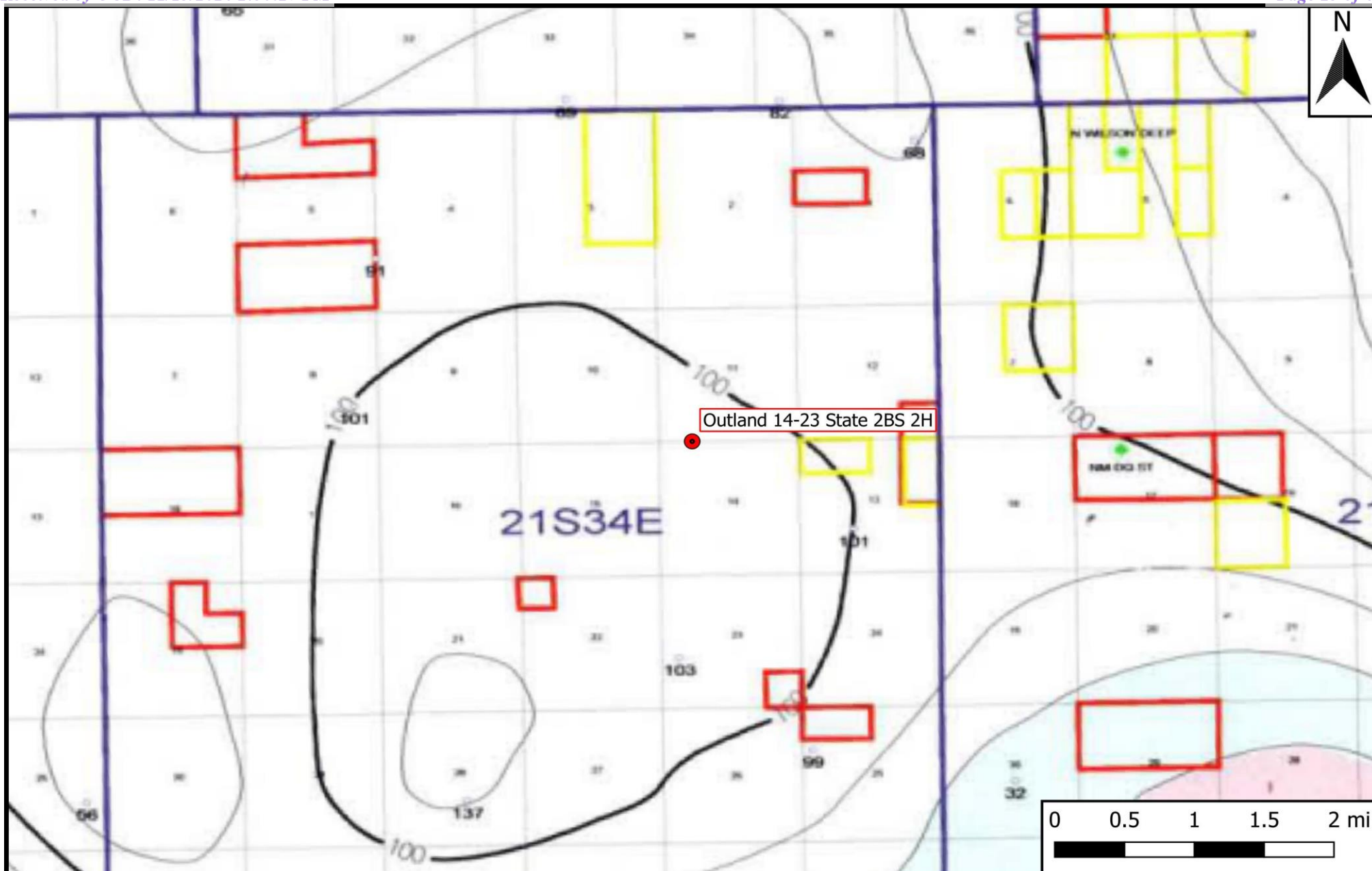
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

## **Appendix A**

### **Depth to Groundwater and NMOCD Siting Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
Permian Resources  
Outland 14-23 State 2BS 2H  
GPS: 32.486037, -103.445132  
Lea County

**eTECH**  
Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 6/21/24



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 01848 POD2</a>		CP	LE	4	3	1	13	21S	34E	647587	3594789	1604	96	80	16
<a href="#">CP 01848 POD3</a>		CP	LE	2	4	1	13	21S	34E	647904	3594858	1883	87	70	17
<a href="#">CP 00089</a>	O	CP	LE		2	1	13	21S	34E	647840	3594615	1905	235		
<a href="#">CP 01366 POD1</a>		CP	LE	4	4	1	16	21S	34E	643196	3594698	2974	180	110	70
<a href="#">CP 01671 POD1</a>		CP	LE	2	4	1	16	21S	34E	643108	3594887	3024	157		
<a href="#">CP 01364 POD1</a>		CP	LE	4	2	3	16	21S	34E	643147	3594331	3126	165	105	60
<a href="#">CP 00590 POD1</a>		CP	LE				01	21S	34E	648099	3597829*	3168	79		

Average Depth to Water: **91 feet**

Minimum Depth: **70 feet**

Maximum Depth: **110 feet**

**Record Count:** 7

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 646093.22

**Northing (Y):** 3595376.14

**Radius:** 3220

\*UTM location was derived from PLSS - see Help

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

6/21/24 10:24 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00089	2	1	13	21S	34E		647840	3594615

x  
**Driller License:**

**Driller Company:**

**Driller Name:** BUCK THERIAE

**Drill Start Date:** 08/28/1943

**Drill Finish Date:**

**Plug Date:**

**Log File Date:**

**PCW Rev Date:**

**Source:** Shallow

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:**

**Casing Size:** 7.00

**Depth Well:** 235 feet

**Depth Water:**

x

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

6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00590 POD1				01	21S	34E	648099	3597829*

**Driller License:** 122

**Driller Company:** UNKNOWN

**Driller Name:**

**Drill Start Date:**

**Drill Finish Date:**

**Plug Date:**

**Log File Date:**

**PCW Rev Date:**

**Source:** Shallow

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:** 3 GPM

**Casing Size:** 6.63

**Depth Well:** 79 feet

**Depth Water:**

\*UTM location was derived from PLSS - see Help

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6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY

Revised December 1975

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

# Declaration of Owner of Underground Water Right

CAPTAN BASIN

BASIN NAME

Declaration No. CP-590

Date received April 17, 1979

79 APR 20 PM 3 00

## STATEMENT

1. Name of Declarant THE MERCHANT LIVESTOCK COMPANY  
Mailing Address P.O. Box 548 Carlsbad STATE ENGINEER OFFICE  
County of Eddy, State of New Mexico SANTA FE, N.M. 87501
2. Source of water supply shallow  
(artesian or shallow water aquifer)
3. Describe well location under one of the following subheadings:  
a. 1/4 Lot 16 1 Twp. 21 S Rge. 34 E N.M.P.M., in  
Lea County.  
b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_  
c. X = \_\_\_\_\_ feet, Y = \_\_\_\_\_ feet, N. M. Coordinate System \_\_\_\_\_ Zone  
in the \_\_\_\_\_ Grant.  
On land owned by \_\_\_\_\_
4. Description of well: date drilled 1911 driller \_\_\_\_\_ depth 79' feet.  
outside diameter of casing 6 5/8 inches; original capacity \_\_\_\_\_ gal. per min.; present capacity 3  
gal. per min.; pumping lift \_\_\_\_\_ feet; static water level 70 feet (above) (below) land surface;  
make and type of pump \_\_\_\_\_  
make, type, horsepower, etc., of power plant \_\_\_\_\_  
Fractional or percentage interest claimed in well \_\_\_\_\_
5. Quantity of water appropriated and beneficially used up to 3  
(~~XXXXXXX~~) (acre feet per annum)  
for stock water purposes.
6. Acreage actually irrigated \_\_\_\_\_ acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner
			<u>stock only</u>		<u>The Merchant Livestock Co.</u>

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use 1911 since that time  
month \_\_\_\_\_ day \_\_\_\_\_ year \_\_\_\_\_  
has been used fully and continuously on all of the above described lands or for the above described purposes except  
as follows: \_\_\_\_\_

8. Additional statements or explanations  
name of well - Jeff Davis

I, J. D. Merchant, Jr., President

being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the terms contained therein and that the same are true to the best of my knowledge and belief.

THE MERCHANT LIVESTOCK CO., declarant.

by: J. D. Merchant, Jr., President  
day of April, A.D. 19 79

Subscribed and sworn to before me this 12th

My commission expires March 2, 1980

Notary Public

NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM.  
ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) \_\_\_\_\_, Township \_\_\_\_\_, Range \_\_\_\_\_ N. M. P. M.


INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2½ acre subdivision. If located on unsurveyed lands, describe by legal supdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easlly-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.



April 17, 1979

Files: CP-584; CP-585; CP-586; CP-587; CP-588;  
CP-589; CP-590; CP-591; CP-592; CP-593;  
CP-594; CP-595; CP-596; CP-597; CP-598;  
CP-599; CP-600; CP-601; CP-602

The Merchant Livestock Company  
P. O. Box 548  
Carlsbad, NM 88220

Gentlemen:

Enclosed are your copies of Declarations of Owner of Underground Water Right as numbered above, which have been filed for record in the office of the State Engineer.

Please refer to each individual number in all future correspondence concerning these declarations.

The filing of these declarations does not indicate affirmation or rejection of the statements contained therein.

Yours very truly,

J. C. Groseclose  
Basin Supervisor

JCG/fh  
encls.  
cc: Santa Fe




# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 01364 POD1	4	2	3	16	21S	34E	643147	3594331 

x

<b>Driller License:</b>	421	<b>Driller Company:</b>	GLENN'S WATER WELL SERVICE
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<b>Driller Name:</b>	CORKY GLENN
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<b>Drill Start Date:</b>	06/24/2015	<b>Drill Finish Date:</b>	06/24/2015	<b>Plug Date:</b>	
<b>Log File Date:</b>	06/26/2015	<b>PCW Rcv Date:</b>	04/27/2017	<b>Source:</b>	Shallow
<b>Pump Type:</b>	SUBMER	<b>Pipe Discharge Size:</b>	3	<b>Estimated Yield:</b>	35 GPM
<b>Casing Size:</b>	8.63	<b>Depth Well:</b>	165 feet	<b>Depth Water:</b>	105 feet

x

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	105	153	Sandstone/Gravel/Conglomerate

x

<b>Meter Number:</b>	18280	<b>Meter Make:</b>	SEAMETRICS
<b>Meter Serial Number:</b>	05 212 614	<b>Meter Multiplier:</b>	1.0000
<b>Number of Dials:</b>	8	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Barrels 42 gal.	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	Monthly

x

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
06/26/2015	2015	0	A	ap		0
07/27/2015	2015	49879	A	ap		64.291
08/21/2015	2015	50233	A	ap		0.456
09/30/2015	2015	50233	A	ap		0
10/31/2015	2015	50233	A	ap		0
11/30/2015	2015	52676	A	ap		3.149
04/28/2016	2016	97694	A	ap		58.025
06/30/2016	2016	131190	A	ap		43.174
07/27/2016	2016	155986	A	ap		31.960
09/01/2016	2016	161887	A	ap		7.606
09/28/2016	2016	174036	A	ap		15.659
10/31/2016	2016	180596	A	ap		8.455
11/29/2016	2016	200991	A	ap		26.288
12/31/2016	2016	200991	A	ap		0
02/01/2017	2017	200991	A	ap		0
03/01/2017	2017	200991	A	ap		0
03/31/2017	2017	200991	A	ap		0
05/01/2017	2017	200991	A	ap		0
05/31/2017	2017	200991	A	ap		0
07/31/2017	2017	239371	A	ap		49.469
10/31/2017	2017	284859	A	ap		58.631
11/30/2017	2017	307429	A	ap		29.091

12/30/2017	2017	465973	A	ap	204.353
01/30/2018	2018	490805	A	ap	32.007
02/28/2018	2018	503452	A	ap	16.301
03/30/2018	2018	519955	A	ap	21.271
04/30/2018	2018	539357	A	ap	25.008
06/01/2018	2018	573740	A	ap	44.317
06/29/2018	2018	603789	A	ap	38.731
07/31/2018	2018	603864	A	ap	0.097
08/30/2018	2018	636674	A	ap	42.290
09/30/2018	2018	664748	A	ap	36.185
11/30/2018	2018	688316	A	ap	30.378
01/02/2019	2018	700034	A	ca	1.510
02/01/2019	2019	700230	A	RPT	0.025
08/01/2019	2019	781145	A	RPT	10.429
09/01/2019	2019	781188	A	RPT	0.006
09/30/2019	2019	795696	A	RPT	1.870
10/31/2019	2019	829344	A	RPT	4.337
11/30/2019	2019	854139	A	RPT	3.196
12/31/2019	2019	868898	A	RPT	1.902
02/01/2020	2020	892649	A	RPT	3.061
03/01/2020	2020	909531	A	RPT	2.176
04/01/2020	2020	924970	A	RPT	1.990
05/01/2020	2020	924970	A	RPT	0
06/01/2020	2020	924970	A	RPT	0
08/01/2020	2020	936094	A	RPT	1.434
09/01/2020	2020	942895	A	RPT	0.877
10/01/2020	2020	942895	A	RPT	0
10/31/2020	2020	943082	A	WEB	0.024 X
11/30/2020	2020	943082	A	WEB	0 X
12/31/2020	2020	994754	A	WEB	6.660 X
01/30/2021	2021	996172	A	ad	0.183
02/28/2021	2021	1017693	A	ad	2.774
03/31/2021	2021	1026468	A	ad	1.131
04/30/2021	2021	1028037	A	ad	0.202
05/31/2021	2021	1060431	A	ad	4.175
06/30/2021	2021	1123906	A	ad	8.182
07/31/2021	2021	1123906	A	ad	0
08/31/2021	2021	16462	A	ad	0
08/31/2021	2021	1143586	A	ad	2.537
09/30/2021	2021	30978	A	ad	1.871
10/31/2021	2021	30979	A	ad	0
11/30/2021	2021	30979	A	ad	0
12/31/2021	2021	30979	A	ad	0
01/31/2022	2022	30979	A	ad	0
02/28/2022	2022	32692	A	ad	0.221
03/31/2022	2022	60131	A	ad	3.537
04/30/2022	2022	77450	A	ad	2.232
06/01/2022	2022	132325	A	ad	7.073
07/01/2022	2022	149721	A	ad	2.242

08/01/2022	2022	149721	A	ad	0
09/01/2022	2022	149721	A	ad	0
11/01/2022	2022	278838	A	WEB	16.642 X
12/01/2022	2022	292073	A	WEB	1.706 X
01/01/2023	2022	317352	A	WEB	3.258 X
02/01/2023	2023	317353	A	WEB	0 X
03/01/2023	2023	339287	A	WEB	2.827 X
04/01/2023	2023	339287	A	WEB	0 X
05/01/2023	2023	381819	A	WEB	5.482 X
06/01/2023	2023	430440	A	WEB	6.267 X
07/01/2023	2023	436246	A	WEB	0.748 X
08/01/2023	2023	449633	A	WEB	1.725 X
09/01/2023	2023	484855	A	WEB	4.540 X
10/01/2023	2023	484855	A	WEB	0 X
11/01/2023	2023	531043	A	WEB	5.953 X
12/01/2023	2023	531043	A	WEB	0 X
01/01/2024	2023	543751	A	WEB	1.638 X
02/01/2024	2024	543751	A	WEB	0 X
03/01/2024	2024	543751	A	WEB	0 X
04/01/2024	2024	543751	A	WEB	0 X
05/01/2024	2024	543751	A	WEB	0 X
06/07/2024	2024	543751	A	WEB	0 X

x

**YTD Meter Amounts:	Year	Amount
	2015	67.896
	2016	191.167
	2017	341.544
	2018	288.095
	2019	21.765
	2020	16.222
	2021	21.055
	2022	36.911
	2023	29.180
	2024	0

x

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6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01366 POD1	4	4	1	16	21S	34E	643196	3594698
<hr/>									
Driller License:	421	Driller Company:				GLENN'S WATER WELL SERVICE			
Driller Name:	CORKY GLEN								
Drill Start Date:	06/19/2015	Drill Finish Date:				06/19/2015		Plug Date:	
Log File Date:	06/26/2015	PCW Rcv Date:				04/27/2017		Source:	Shallow
Pump Type:	SUBMER	Pipe Discharge Size:				3		Estimated Yield:	35 GPM
Casing Size:	8.63	Depth Well:				180 feet		Depth Water:	110 feet

Water Bearing Stratifications:		Top	Bottom	Description
		110	160	Sandstone/Gravel/Conglomerate

Meter Number: 18281		Meter Make: SEAMETRICS	
Meter Serial Number: 05 212 606		Meter Multiplier: 1.0000	
Number of Dials: 8		Meter Type: Diversion	
Unit of Measure: Barrels 42 gal.		Return Flow Percent:	
Usage Multiplier:		Reading Frequency: Monthly	

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
07/01/2015	2015	0	A	ap		0
07/27/2015	2015	26985	A	ap		34.782
08/31/2015	2015	26985	A	ap		0
09/30/2015	2015	26985	A	ap		0
10/31/2015	2015	26985	A	ap		0
11/30/2015	2015	29343	A	ap		3.039
04/28/2016	2016	70297	A	ap		52.787
06/30/2016	2016	101474	A	ap		40.185
06/30/2016	2016	0	A	ap	new meter on old base	0
07/27/2016	2016	22719	A	ap		292.833
09/01/2016	2016	27505	A	ap		61.688
09/28/2016	2016	40240	A	ap		164.146
11/29/2016	2016	46546	A	ap		81.280
11/29/2016	2016	64235	A	ap		227.999
12/31/2016	2016	64235	A	ap		0
02/01/2017	2017	64235	A	ap		0
03/01/2017	2017	64235	A	ap		0
03/31/2017	2017	64235	A	ap		0
05/01/2017	2017	64235	A	ap		0
05/31/2017	2017	64235	A	ap		0
07/31/2017	2017	99062	A	ap		448.897
10/31/2017	2017	147627	A	ap		625.970

11/30/2017	2017	165441	A	ap	229.610
12/30/2017	2017	197744	A	ap	416.364
01/30/2018	2018	215118	A	ap	223.939
02/28/2018	2018	226825	A	ap	150.895
03/30/2018	2018	242179	A	ap	197.903
04/30/2018	2018	259935	A	ap	228.863
06/01/2018	2018	291863	A	ap	411.530
06/29/2018	2018	320334	A	ap	366.972
07/31/2018	2018	320335	A	ap	0.013
08/30/2018	2018	349558	A	ap	376.665
09/30/2018	2018	372983	A	ap	301.932
11/30/2018	2018	393314	A	ap	262.053
01/02/2019	2018	415950	A	RPT	2.918
02/01/2019	2019	446864	A	RPT	3.985
08/01/2019	2019	519535	A	RPT	9.367
09/30/2019	2019	532181	A	RPT	1.630
10/31/2019	2019	558235	A	RPT	3.358
11/30/2019	2019	581962	A	RPT	3.058
12/31/2019	2019	595185	A	RPT	1.704
02/01/2020	2020	605584	A	RPT	1.340
03/01/2020	2020	618205	A	RPT	1.627
06/01/2020	2020	630926	A	RPT	1.640
08/01/2020	2020	643456	A	RPT	1.615
09/01/2020	2020	650901	A	RPT	0.960
10/01/2020	2020	650901	A	RPT	0
10/31/2020	2020	652012	A	WEB	0.143 X
11/30/2020	2020	652012	A	WEB	0 X
12/31/2020	2020	709950	A	WEB	7.468 X
01/31/2021	2021	709950	A	ad	0
02/28/2021	2021	720466	A	ad	1.355
03/31/2021	2021	738323	A	ad	2.302
04/30/2021	2021	745950	A	ad	0.983
05/31/2021	2021	762080	A	ad	2.079
06/30/2021	2021	778150	A	ad	2.071
07/31/2021	2021	778151	A	ad	0
08/31/2021	2021	796719	A	ad	0
08/31/2021	2021	15007	A	ad	0
09/30/2021	2021	20289	A	ad	0.681
10/31/2021	2021	52851	A	ad	4.197
11/30/2021	2021	52851	A	ad	0
12/31/2021	2021	58527	A	ad	0.732
01/31/2022	2022	58527	A	ad	0
02/28/2022	2022	58527	A	ad	0
03/22/2022	2022	58538	A	ad	0.001
04/30/2022	2022	75228	A	ad	2.151
06/01/2022	2022	126413	A	ad	6.597
07/01/2022	2022	142302	A	ad	2.048
08/01/2022	2022	142302	A	ad	0
09/01/2022	2022	142302	A	ad	0

11/01/2022	2022	259985	A	WEB	15.169 X
12/01/2022	2022	272049	A	WEB	1.555 X
01/01/2023	2022	295089	A	WEB	2.970 X
02/01/2023	2023	295089	A	WEB	0 X
03/01/2023	2023	314761	A	WEB	2.536 X
04/01/2023	2023	314761	A	WEB	0 X
05/01/2023	2023	353069	A	WEB	4.938 X
06/01/2023	2023	396775	A	WEB	5.633 X
07/01/2023	2023	402013	A	WEB	0.675 X
08/01/2023	2023	412371	A	WEB	1.335 X
09/01/2023	2023	444260	A	WEB	4.110 X
10/01/2023	2023	444260	A	WEB	0 X
11/01/2023	2023	486606	A	WEB	5.458 X
12/01/2023	2023	486606	A	WEB	0 X
01/01/2024	2023	542948	A	WEB	7.262 X
02/01/2024	2024	550626	A	WEB	0.990 X
03/01/2024	2024	583016	A	WEB	4.175 X
04/01/2024	2024	607344	A	WEB	3.136 X
05/01/2024	2024	627225	A	WEB	2.563 X
06/07/2024	2024	650160	A	WEB	2.956 X

x

**YTD Meter Amounts:	Year	Amount
	2015	37.821
	2016	920.918
	2017	1720.841
	2018	2523.683
	2019	23.102
	2020	14.793
	2021	14.400
	2022	30.491
	2023	31.947
	2024	13.820

x

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6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
205F4	CP 01671 POD1	2	4	1	16	21S	34E	643108	3594887 
<hr/>									
<b>Driller License:</b> 1731		<b>Driller Company:</b>				HARRISON & COOPER, INC DBA: HCI DRILLING			
<b>Driller Name:</b>		COOPER, KENNY							
<b>Drill Start Date:</b>		10/05/2017		<b>Drill Finish Date:</b>			10/05/2017		<b>Plug Date:</b>
<b>Log File Date:</b>		10/31/2017		<b>PCW Rcv Date:</b>			<b>Source:</b> Shallow		
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>			<b>Estimated Yield:</b>				
<b>Casing Size:</b> 5.00		<b>Depth Well:</b>			157 feet			<b>Depth Water:</b>	
<hr/>									
<b>Casing Perforations:</b>				<b>Top</b>	<b>Bottom</b>				
				117	157				

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6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

STATE ENGINEER'S OFFICE  
SANTA FE, NEW MEXICO  
2017 OCT 10 PM 3:16

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1; WW-1		WELL TAG ID NO.		OSE FILE NO(S). CP-1671			
	WELL OWNER NAME(S) The Merchand Livestock Co., Inc.				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS P.O. Box 1105				CITY Eunice	STATE NM	ZIP 88231	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 28	SECONDS 55.2606	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE	-103	28	37.07	W	* DATUM REQUIRED: WGS 84		
	LONGITUDE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						
2. DRILLING & CASING INFORMATION	LICENSE NO. 1731		NAME OF LICENSED DRILLER Kenny Cooper			NAME OF WELL DRILLING COMPANY Harrison & Cooper, Inc. (DBA HCI Drilling)		
	DRILLING STARTED 10/05/2017	DRILLING ENDED 10/05/2017	DEPTH OF COMPLETED WELL (FT) 157	BORE HOLE DEPTH (FT) 157	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 114.9'			
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	117	9 7/8	Riser	Bell End	5	Sch 40	
	117	157	9 7/8	Screen	Bell End	5	Sch 40	0.035
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	97	9 7/8	Bentonite Grout	1	Poured		
	97	157	9 7/8	Sand - 8/16	1	Poured		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1671	POD NO.	1	TRN NO.	610479
LOCATION	Dom STR	WELL TAG ID NO.	2B.34E.16.142	205F4	PAGE 1 OF 2


STATE DEPARTMENT OFFICE

WR-20 WELL RECORD & LOG (Version 06/30/2017)



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01848 POD2	4	3	1	13	21S	34E	647587	3594789 
Driller License: 1249		Driller Company:				ATKINS ENGINEERING ASSOC. INC.			
Driller Name: JACKIE ATKINS									
Drill Start Date: 06/01/2021		Drill Finish Date:				06/02/2021		Plug Date:	
Log File Date: 07/01/2021		PCW Rcv Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size: 2.00		Depth Well:				96 feet		Depth Water: 80 feet	
Water Bearing Stratifications:					Top	Bottom	Description		
					81	96	Sandstone/Gravel/Conglomerate		
Casing Perforations:					Top	Bottom			
					0	96			

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

6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

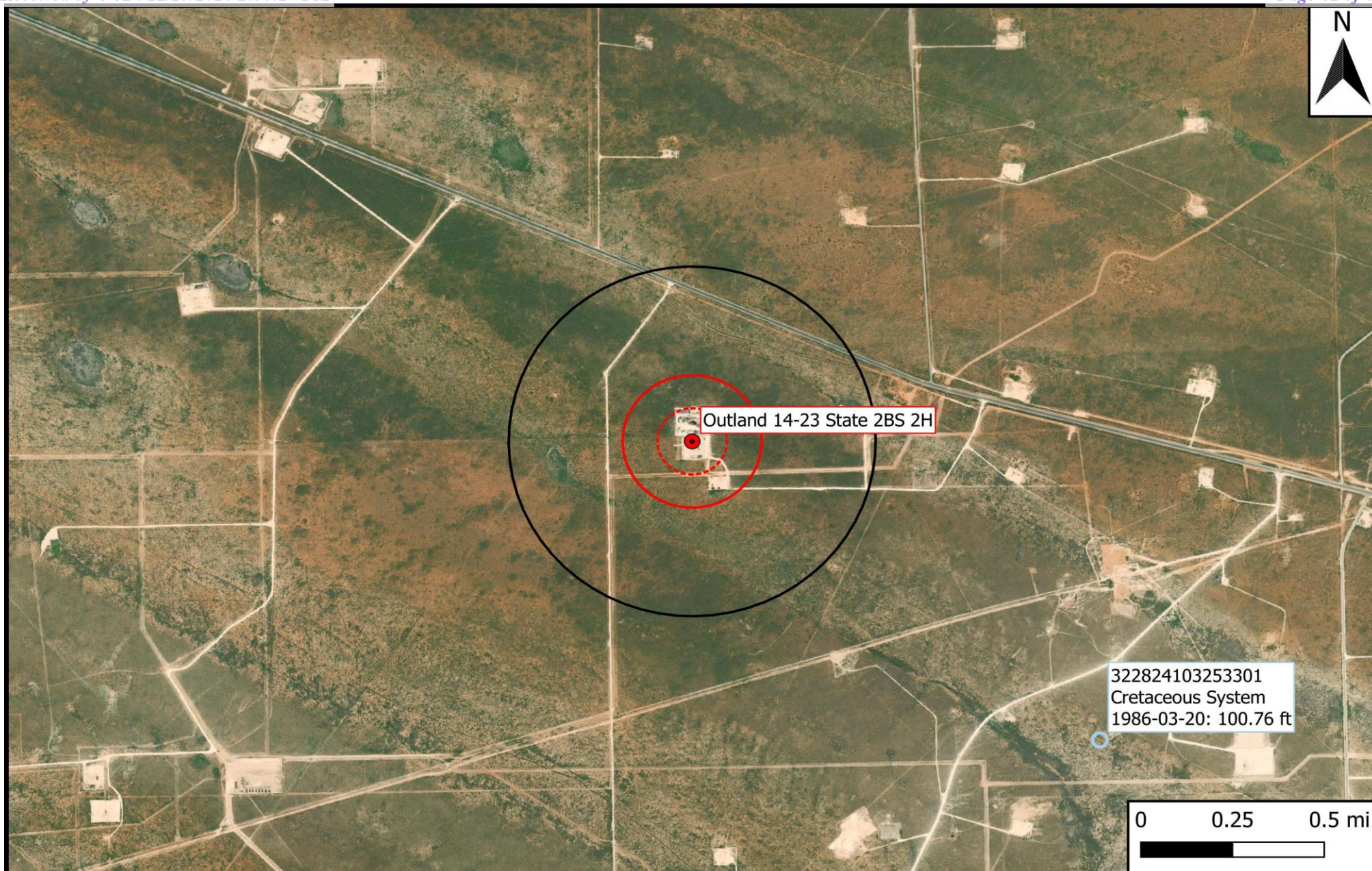
		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01848 POD3	2	4	1	13	21S	34E	647904	3594858
Driller License:	1249	Driller Company:				ATKINS ENGINEERING ASSOC. INC.			
Driller Name:	ATKINS, JACKIE D.UELENER								
Drill Start Date:	08/19/2021	Drill Finish Date:				08/19/2021		Plug Date:	
Log File Date:	09/13/2021	PCW Rcv Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size:	2.00	Depth Well:				87 feet		Depth Water:	70 feet
Water Bearing Stratifications:					Top	Bottom	Description		
					65	87	Sandstone/Gravel/Conglomerate		
Casing Perforations:					Top	Bottom			
					67	87			

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

6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



**Legend**

- Site Location
- Well - USGS
- ⊞ 500 Ft Radius
- ⊞ 1000 Ft Radius
- ⊞ 0.5 Mi Radius

**Figure 5**

USGS Well Proximity Map  
Permian Resources  
Outland 14-23 State 2BS 2H  
GPS: 32.486037, -103.445132  
Lea County



Drafted: mag

Checked: jwl

Date: 6/21/24





[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

[Click for News Bulletins](#)

[Groundwater levels for the Nation](#)

**!** Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

**Agency code** = usgs

**site\_no list** =

- 322824103253301

**Minimum number of levels** = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 322824103253301 21S.34E.13.32413

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°28'24", Longitude 103°25'33" NAD27

Land-surface elevation 3,650 feet above NAVD88

The depth of the well is 335 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

#### Output formats

[Table of data](#)

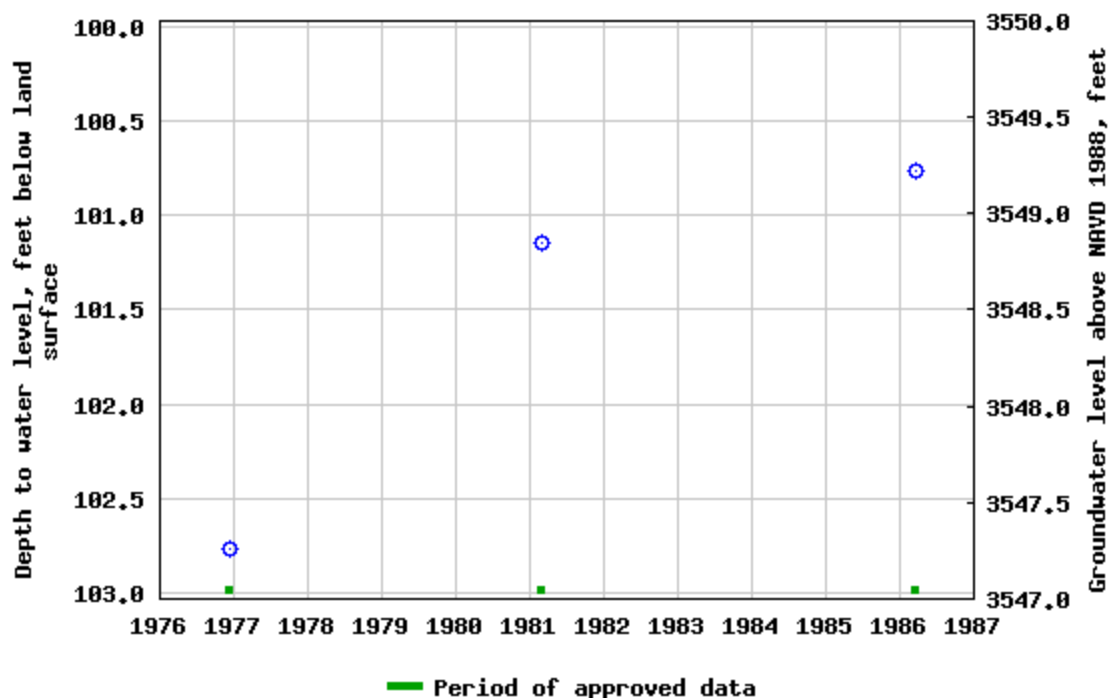
[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



USGS 322824103253301 21S,34E,13,32413



Breaks in the plot represent a gap of at least one year between field measurements.  
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**Title: Groundwater for USA: Water Levels**

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



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

Page Last Modified: 2024-06-21 12:21:10 EDT

0.55 0.47 nadww02

## **Appendix B**

### **Field Data and Soil Profile Logs**



# Sample Log

Project: Outland 14-23 State 2BS 2H

Date: 8.22.24

Project Number: 20751

Latitude: 32.486037

Longitude: -103.445132

Sample ID	PID/Odor	Chloride Conc.	GPS
SW-47	-	1256 CS-82 B @ 7'	5640
SW-97A #1	-	1088 CS-82 B @ 8'	2384
SW-47B	-	188 SW-1	6092
SW-38A #1	-	1768 CS-82 B @ 9'	1276
SW-38B	-	872 SW-1	2584
SW-38B #2	-	872 CS-43-B @ 10'	352
SW-38B #3	-	872 CS-47 B @ 7'	252
SW-38B #4	-	804 CS-82 B @ 10'	436
SW-38C	-	804 SW-32A	352
SW-38C #1	-	804 CS-79 B @ 11'	480
SW-38C #2	-	872 SW-37 B	392
SW-38C #3	-	804 SW-36 B	1800
SW-38C #4	-	1440 SW-36 B	1276
SW-1	-	872 SW-36 B	816
NW-1	-	2544 SW-101 A	1680
FL-1 @ 8'	-	1256 SW-36 B	436
FL-1 @ 9'	-	1168 SW-61 A	692
FL-1 @ 10'	-	624 SW-6' B	352
SW-38D	-	1168	-
NW-1	-	872	-
NW-1	-	684	-
NW-1	-	624	-
NW-1	-	684	-
NW-1	-	520	-
SW-38D #1	-	276	-
SW-38D #2	-	348	-
SW-38D #3	-	872	-
FL-1 @ 10'	-	472	-
SW-38D #4	-	804	-
SW-38D #5	-	1168	-
SW-38E	-	1624	-
CS-101-B @ 10'	-	276	-
CS-82 B @ 10'	-	1256	-
SW-32A	-	2544	-
NW-2	-	352	-
SW-1	-	27,492	-

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## Soil Profile

Date: 10/18/2024

Project: Outland 14-23 State 2BS 2H

Project Number: 20751 Latitude: 32.486037 Longitude: -103.445132

Depth (ft. bgs)

Description

Imported Fill

Caliche/Hard Rock

Brownish Red Sandy Caliche

TD

## **Appendix C**

### **Laboratory Analytical Reports**



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

---

December 06, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND

Enclosed are the results of analyses for samples received by the laboratory on 12/01/23 13:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

**Sample ID: CS - 1 (1') (H236469-01)**

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	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	272	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	25.5	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 2 (1') (H236469-02)**

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	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEx	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 3 (1') (H236469-03)**

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	12/04/2023	ND	2.02	101	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	544	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	45.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 4 (3') (H236469-04)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	320	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

**Sample ID: CS - 5 (3') (H236469-05)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	160	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 6 (3') (H236469-06)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	256	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 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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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 7 (3') (H236469-07)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 8 (3') (H236469-08)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	128	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 9 (3') (H236469-09)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	176	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 10 (3') (H236469-10)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	144	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 11 (3') (H236469-11)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	240	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	14.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 12 (3') (H236469-12)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	80.0	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 13 (3') (H236469-13)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	352	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 14 (3') (H236469-14)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	176	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 15 (3') (H236469-15)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	256	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/01/2023  
Reported: 12/06/2023  
Project Name: OUTLAND  
Project Number: 237863  
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS - 16 (3') (H236469-16)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	144	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/01/2023  
Reported: 12/06/2023  
Project Name: OUTLAND  
Project Number: 237863  
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS - 17 (3') (H236469-17)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	240	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 18 (3') (H236469-18)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	416	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 19 (3') (H236469-19)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	528	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	36.8	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 20 (3') (H236469-20)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	272	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	191	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 21 (3') (H236469-21)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	448	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	304	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 22 (3') (H236469-22)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	352	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	21.1	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 23 (3') (H236469-23)**

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	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	320	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 24 (3') (H236469-24)**

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTEx	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	768	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	19.8	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/01/2023  
Reported: 12/06/2023  
Project Name: OUTLAND  
Project Number: 237863  
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS - 25 (3') (H236469-25)**

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	224	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	31.6	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 26 (3') (H236469-26)**

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	128	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	17.7	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 27 (3') (H236469-27)**

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	10.3	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/01/2023  
 Reported: 12/06/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 28 (3') (H236469-28)**

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	4640	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	241	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	68.1	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/01/2023  
Reported: 12/06/2023  
Project Name: OUTLAND  
Project Number: 237863  
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/01/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS - 29 (3') (H236469-29)**

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	12/04/2023	ND	2.23	112	2.00	12.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5		
Total BTX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	2200	16.0	12/04/2023	ND	416	104	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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	26.4	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 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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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

(575) 393-2326 FAX (575) 393-2476				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
Company Name: <b>NTGE</b>				P.O. #:															
Project Manager: <b>Beth Haskell</b>				Company:															
Address: <b>209 W McWay St</b>				Attn:															
City: <b>Carlsbad</b> State: <b>NM</b> Zip: <b>88220</b>				Address:															
Phone #: <b>936-929-8056</b> Fax #:				City:															
Project #: <b>237863</b> Project Owner: <b>Earthstone</b>				State: Zip:															
Project Name: <b>Outland</b>				Phone #:															
Project Location: <b>Lee County</b>				Fax #:															
Sampler Name: <b>Tyler Kamali</b>																			
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING											

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Relinquished By: 		Date: 12-1-23 Time: 1:56		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date: Time:		Received By:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C 4.1		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No	
				Thermometer ID #140 Correction Factor 0°C		Corrected Temp. °C	





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>NTG</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Brian Haskell</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TRIT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>											
Address: <u>209 W McWay St</u>				Company:															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:															
Phone #: <u>505-924-8056</u> Fax #:				Address:															
Project #: <u>237863</u> Project Owner: <u>Earthstone</u>				City:															
Project Name: <u>Outland</u>				State: Zip:															
Project Location: <u>Lea County</u>				Phone #:															
Sampler Name: <u>Tyler Kambali</u>				Fax #:															
FOR LAB USE ONLY				MATRIX				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					
<u>H236469</u>																			
<u>11</u>	<u>CS-11 (3)</u>					<u>X</u>							<u>12-1</u>	<u>9:15</u>					
<u>12</u>	<u>CS-12 (3)</u>																		
<u>13</u>	<u>CS-13 (3)</u>																		
<u>14</u>	<u>CS-14 (3)</u>																		
<u>15</u>	<u>CS-15 (3)</u>																		
<u>16</u>	<u>CS-16 (3)</u>																		
<u>17</u>	<u>CS-17 (3)</u>																		
<u>18</u>	<u>CS-18 (3)</u>																		
<u>19</u>	<u>CS-19 (3)</u>																		
<u>20</u>	<u>CS-20 (3)</u>																		

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Relinquished By: <u>[Signature]</u>	Date: <u>12-1-23</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)	Observed Temp. °C <u>41.1</u>	Sample Condition	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #140 Correction Factor 0°C	<input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No
CHECKED BY: (Initials) <u>[Signature]</u> † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com				



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>NTG</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Brian Haskell</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">112</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>											
Address: <u>209 W McWay St</u>				Company:															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn:															
Phone #: <u>505-929-8056</u> Fax #:				Address:															
Project #: <u>237863</u> Project Owner: <u>Earthstone</u>				City:															
Project Name: <u>Outland</u>				State: Zip:															
Project Location: <u>Lea County</u>				Phone #:															
Sampler Name: <u>Tyler Kambali</u>				Fax #:															
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING							
Lab I.D.	Sample I.D.	(G)RAB OR (COMP.)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL	OTHER	DATE	TIME					
<u>H236469</u>																			
<u>21</u>	<u>CS-21 (3)</u>					<u>X</u>							<u>12-1</u>	<u>9:30</u>					
<u>22</u>	<u>CS-22 (3)</u>																		
<u>23</u>	<u>CS-23 (3)</u>																		
<u>24</u>	<u>CS-24 (3)</u>																		
<u>25</u>	<u>CS-25 (3)</u>																		
<u>26</u>	<u>CS-26 (3)</u>																		
<u>27</u>	<u>CS-27 (3)</u>																		
<u>28</u>	<u>CS-28 (3)</u>																		
<u>29</u>	<u>CS-29 (3)</u>																		

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Relinquished By: <u>[Signature]</u>	Date: <u>12-1-25</u>	Received By: <u>[Signature]</u>	Time: <u>1:56</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Time:	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)				REMARKS:	
Sampler - UPS - Bus - Other:				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Observed Temp. °C <u>4.1</u>				Bacteria (only) Sample Condition	
Corrected Temp. °C				Cool Intact Observed Temp. °C	
Sample Condition				Cool Intact Observed Temp. °C	
Cool Intact				Cool Intact Observed Temp. °C	
Yes Yes				Yes Yes	
No No				No No	
CHECKED BY: (Initials) <u>VO</u>				Thermometer ID #140	
				Correction Factor 0°C	

FORM-000 R 3.4 07/11/23

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December 07, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND

Enclosed are the results of analyses for samples received by the laboratory on 12/04/23 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 30 (4') (H236498-01)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	304	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	10.3	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 31 (4') (H236498-02)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEx	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	528	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	11.4	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 32 (6') (H236498-03)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEx	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 33 (6') (H236498-04)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEx	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	2840	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	22.3	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 34 (6') (H236498-05)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1260	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	770	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 35 (9') (H236498-06)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	160	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	16.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/04/2023  
Reported: 12/07/2023  
Project Name: OUTLAND  
Project Number: 237863  
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Dionica Hinojos

**Sample ID: CS - 36 (9') (H236498-07)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	560	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 37 (9') (H236498-08)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1440	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 38 (9') (H236498-09)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	560	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	16.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/04/2023  
Reported: 12/07/2023  
Project Name: OUTLAND  
Project Number: 237863  
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Dionica Hinojos

**Sample ID: CS - 39 (9') (H236498-10)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEx	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	112	16.0	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 40 (9') (H236498-11)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	12/05/2023	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	32.4	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 41 (9') (H236498-12)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEx	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	240	16.0	12/05/2023	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	51.9	10.0	12/05/2023	ND	196	97.8	200	2.59	QM-07
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 42 (9') (H236498-13)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	448	16.0	12/07/2023	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	181	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 43 (9') (H236498-14)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	496	16.0	12/07/2023	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	135	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/04/2023  
Reported: 12/07/2023  
Project Name: OUTLAND  
Project Number: 237863  
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Dionica Hinojos

**Sample ID: CS - 44 (9') (H236498-15)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEx	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/07/2023	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 45 (9') (H236498-16)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	176	16.0	12/07/2023	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/04/2023  
Reported: 12/07/2023  
Project Name: OUTLAND  
Project Number: 237863  
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Dionica Hinojos

**Sample ID: CS - 46 (9') (H236498-17)**

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	12/05/2023	ND	1.93	96.5	2.00	1.85		
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303		
Total BTEx	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/07/2023	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	85.6	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 47 (9') (H236498-18)**

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	12/05/2023	ND	2.03	101	2.00	6.74		
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05		
Total BTEx	<0.300	0.300	12/05/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	12/07/2023	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	102	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 48 (9') (H236498-19)**

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	12/05/2023	ND	2.03	101	2.00	6.74		
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17		
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65		
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05		
Total BTEX	<0.300	0.300	12/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	416	16.0	12/07/2023	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	87.6	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/04/2023  
 Reported: 12/07/2023  
 Project Name: OUTLAND  
 Project Number: 237863  
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 12/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 49 (9') (H236498-20)**

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	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	944	16.0	12/07/2023	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	170	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



**CARDINAL**  
Laboratories

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTCOE		BILL TO		ANALYSIS REQUEST													
Project Manager: Becky Haske		P.O. #:															
Address: 209 W McRay		Company:															
City: Carlsbad		Attn:															
State: NM Zip: 88220		Address:															
Phone #: 436-424-8056		City:															
Fax #:		State: Zip:															
Project #: 237863		Project Owner: Earthshare		Phone #:													
Project Name: Outland		Fax #:															
Project Location: Lea County																	
Sampler Name: Tyler Hunka																	
FOR LAB USE ONLY																	
Lab I.D.		Sample I.D.															
H236498		CS-30 (4')															
1 can to 540056		CS-31 (4')															
		CS-32 (6')															
		CS-33 (6')															
		CS-34 (6')															
		CS-35 (9')															
		CS-36 (9')															
		CS-37 (9')															
		CS-38 (9')															
		CS-39 (9')															
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Relinquished By: [Signature]		Date: 12-9		Received By: [Signature]		Verbal Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:											
Relinquished By:		Time: 5:00		Received By:		All Results are emailed. Please provide Email address:											
Date:		Time:		REMARKS:													
Delivered By: (Circle One)		Observed Temp. °C -0.9a		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition							
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		[Signature]		Thermometer ID #140		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Observed Temp. °C					
								Correction Factor 0°C				Corrected Temp. °C					

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTCOE				BILL TO				ANALYSIS REQUEST																			
Project Manager: Becky Haske				P.O. #:																							
Address: 209 W McGray				Company:																							
City: Carlsbad State: NM Zip: 88220				Attn:																							
Phone #: 436424-8056 Fax #:				Address:																							
Project #: 237863 Project Owner: Earthstone				City:																							
Project Name: Outland				State: Zip:																							
Project Location: Lea County				Phone #:																							
Sampler Name: Tylerunka				Fax #:																							
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING		TCH Charles BTEA															
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:													ICE / COOL	OTHER:	DATE	TIME
H236498		CS-40 (9')																									
11		CS-41 (9')																									
12		CS-42 (9')																									
13		CS-43 (9')																									
14		CS-44 (9')																									
15		CS-45 (9')																									
16		CS-46 (9')																									
17		CS-47 (9')																									
18		CS-48 (9')																									
19		CS-49 (9')																									
20																											
<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: [Signature]			Date: 12-4		Received By: [Signature]			Verbal Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																			
Relinquished By:			Time: 3:00		Received By:			All Results are emailed. Please provide Email address:																			
Relinquished By:			Date:		Received By:			REMARKS:																			
Relinquished By:			Time:		Received By:																						
Delivered By: (Circle One)			Observed Temp. °C -0.9°C		Sample Condition			CHECKED BY: (Initials)			Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			Bacteria (only) Sample Condition													
Sampler - UPS - Bus - Other:			Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No						Thermometer ID #140			Cool Intact Observed Temp. °C													
					No <input type="checkbox"/> Yes <input type="checkbox"/> No						Correction Factor 0°C			Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C													



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

December 21, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND 14-23 STATE UNIT 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/23 10:55.

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





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 4 1-3 (H236708-01)**

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	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEx	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	256	16.0	12/19/2023	ND	416	104	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 5 0-3 (H236708-02)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/19/2023	ND	416	104	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 6 0-3 (H236708-03)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	16.0	16.0	12/19/2023	ND	416	104	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	13.4	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 7 0-3 (H236708-04)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 8 0-3 (H236708-05)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	464	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 9 0-2 (H236708-06)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	10700	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 10 0-3 (H236708-07)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1790	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 73.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 11 0-3 (H236708-08)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	80.0	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 12 0-3 (H236708-09)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	384	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	308	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	66.8	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 13 6-9 (H236708-10)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	784	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 14 6-9 (H236708-11)**

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	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1280	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	35.8	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 15 3-6 (H236708-12)**

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	12/20/2023	ND	2.06	103	2.00	4.43	
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65	
Total BTEx	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 16 3-6 (H236708-13)**

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	12/20/2023	ND	2.06	103	2.00	4.43	
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65	
Total BTEx	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	128	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 17 0-3 (H236708-14)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	80.0	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 18 3-4 (H236708-15)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	656	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	153	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	38.1	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 19 0-4 (H236708-16)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	448	16.0	12/19/2023	ND	416	104	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	12.7	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 20 0-4 (H236708-17)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 21 0-3 (H236708-18)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	1360	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	169	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	25.3	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 22 0-5 (H236708-19)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13000	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	112	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	18.9	10.0	12/19/2023	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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 23 0-5 (H236708-20)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 24 0-5 (H236708-21)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 25 3-5 (H236708-22)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 26 5-9 (H236708-23)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/19/2023	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	12/20/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 27 3-9 (H236708-24)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 28 0-9 (H236708-25)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 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



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 29 0-9 (H236708-26)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 30 0-6 (H236708-27)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	167	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	11.6	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 31 0-9 (H236708-28)**

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	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEx	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	239	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 32 0-6 (H236708-29)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 33 0-9 (H236708-30)**

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	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEx	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 34 0-9 (H236708-31)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 35 3-9 (H236708-32)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 36 0-3 (H236708-33)**

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	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	1260	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 37 0-3 (H236708-34)**

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	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	288	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	114	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 38 0-3 (H236708-35)**

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	272	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	291	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 39 0-3 (H236708-36)**

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	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1150	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 40 0-9 (H236708-37)**

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	12/19/2023	ND	416	104	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 41 0-10 (H236708-38)**

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	12/19/2023	ND	416	104	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 42 3-10 (H236708-39)**

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	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	12/19/2023	ND	416	104	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 43 0-10 (H236708-40)**

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	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	12/19/2023	ND	416	104	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 44 0-10 (H236708-41)**

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	12/19/2023	ND	416	104	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	12/20/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 45 0-10 (H236708-42)**

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	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	12/19/2023	ND	416	104	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	12/20/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 46 0-5 (H236708-43)**

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	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEx	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	480	16.0	12/19/2023	ND	416	104	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	12/20/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	81.1	10.0	12/20/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	21.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





## Chain of Custody

Work Order No: H236708Page 7 of 11

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Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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: <input type="checkbox"/>

Project Name:	Outland 14-23 State 2BS #2H		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number:	237863		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Due Date:		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Parameters</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 8021B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015M (GRO + DRO + MRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 4500</div> </div>												None: NO		DI Water: H <sub>2</sub> O	
Project Location:	Lea Co, NM		TAT starts the day received by the lab, if received by 4:30pm																Cool: Cool		MeOH: Me	
Sampler's Name:	Kenny Han																		HCL: HC		HNO <sub>3</sub> : HN	
PO #:																			H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>		NaOH: Na	
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140												H <sub>3</sub> PO <sub>4</sub> : HP		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Correction Factor:													NaHSO <sub>4</sub> : NABIS						
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Temperature Reading:	-10.02												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>						
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Corrected Temperature:													Zn Acetate+NaOH: Zn						
Total Containers:	103														NaOH+Ascorbic Acid: SAPC							
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
SW-4	1-3	12/15/2023	11:00	X		Comp	1	X	X	X												
SW-5	0-3	12/15/2023	11:02	X		Comp	1	X	X	X												
SW-6	0-3	12/15/2023	11:04	X		Comp	1	X	X	X												
SW-7	0-3	12/15/2023	11:06	X		Comp	1	X	X	X												
SW-8	0-3	12/15/2023	11:08	X		Comp	1	X	X	X												
SW-9	0-2	12/15/2023	11:10	X		Comp	1	X	X	X												
SW-10	0-3	12/15/2023	11:12	X		Comp	1	X	X	X												
SW-11	0-3	12/15/2023	11:14	X		Comp	1	X	X	X												
SW-12	0-3	12/15/2023	11:16	X		Comp	1	X	X	X												
SW-13	6-9	12/15/2023	11:18	X		Comp	1	X	X	X												

Additional Comments:

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		12-18-23 / 055			





## Chain of Custody

Work Order No: H236708Page 8 of 11

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Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:	Outland 14-23 State 2BS #2H		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes				
Project Number:	237863		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Due Date:		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Parameters</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX 8021B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015M (GRO + DRO + MRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 4500</div> </div>												None: NO		DI Water: H <sub>2</sub> O		
Project Location:	Lea Co, NM		TAT starts the day received by the lab, if received by 4:30pm																Cool: Cool		MeOH: Me		
Sampler's Name:	Kenny Han																		HCL: HC		HNO <sub>3</sub> : HN		
PO #:																			H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>		NaOH: Na		
<b>SAMPLE RECEIPT</b>			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:		140		HOLD		H <sub>3</sub> PO <sub>4</sub> : HP		NaHSO <sub>4</sub> : NABIS								
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor:				Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>		Zn Acetate+NaOH: Zn														
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading:		-10.0		NaOH+Ascorbic Acid: SAPC																
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Corrected Temperature:																				
Total Containers:	103																						
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments			
SW-14	6-9	12/15/2023	11:20	X		Comp	1	X	X	X													
SW-15	3-6	12/15/2023	11:22	X		Comp	1	X	X	X													
SW-16	3-6	12/15/2023	11:24	X		Comp	1	X	X	X													
SW-17	0-3	12/15/2023	11:26	X		Comp	1	X	X	X													
SW-18	3-4	12/15/2023	11:28	X		Comp	1	X	X	X													
SW-19	0-4	12/15/2023	11:30	X		Comp	1	X	X	X													
SW-20	0-4	12/15/2023	11:32	X		Comp	1	X	X	X													
SW-21	0-3	12/15/2023	11:34	X		Comp	1	X	X	X													
SW-22	0-5	12/15/2023	11:36	X		Comp	1	X	X	X													
SW-23	0-5	12/15/2023	11:38	X		Comp	1	X	X	X													

Additional Comments:

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		12-18-23 1055			





## Chain of Custody

Work Order No: H236708Page 9 of 11

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Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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:	

Project Name:	Outland 14-23 State 2BS #2H		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes		
Project Number:	237863		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Due Date:		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Parameters</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 8021B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015M (GRO + DRO + MRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 4500</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">HOLD</div> </div>												None: NO      DI Water: H <sub>2</sub> O		
Project Location:	Lea Co, NM		TAT starts the day received by the lab, if received by 4:30pm																Cool: Cool      MeOH: Me		
Sampler's Name:	Kenny Han																		HCL: HC      HNO <sub>3</sub> : HN		
PO #:																			H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na		
<b>SAMPLE RECEIPT</b>			Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:		140												
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		N/A		Correction Factor:																
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		N/A		Temperature Reading:		-10.02														
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		N/A		Corrected Temperature:																
Total Containers:	103																				
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
SW-24	0-5	12/15/2023	11:40	X		Comp	1	X	X	X											
SW-25	3-5	12/15/2023	11:42	X		Comp	1	X	X	X											
SW-26	5-9	12/15/2023	11:44	X		Comp	1	X	X	X											
SW-27	3-9	12/15/2023	11:46	X		Comp	1	X	X	X											
SW-28	0-9	12/15/2023	11:48	X		Comp	1	X	X	X											
SW-29	0-9	12/15/2023	11:50	X		Comp	1	X	X	X											
SW-30	0-6	12/15/2023	11:52	X		Comp	1	X	X	X											
SW-31	0-9	12/15/2023	11:54	X		Comp	1	X	X	X											
SW-32	0-6	12/15/2023	11:56	X		Comp	1	X	X	X											
SW-33	0-9	12/15/2023	11:58	X		Comp	1	X	X	X											

Additional Comments:

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		12/18/23 1055			





## Chain of Custody

Work Order No: H236708Page 10 of 11

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Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Outland 14-23 State 2BS #2H		Turn Around		ANALYSIS REQUEST										Preservative Codes			
Project Number:	237863		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code											None: NO DI Water: H <sub>2</sub> O		
Project Location:	Lea Co, NM		Due Date:		Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500										Cool: Cool MeOH: Me		
Sampler's Name:	Kenny Han		TAT starts the day received by the lab, if received by 4:30pm													HCL: HC HNO <sub>3</sub> : HN		
PO #:																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:												Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Thermometer ID:	140												NaHSO <sub>4</sub> : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Correction Factor:		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>													
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Temperature Reading:	-10.0	Zn Acetate+NaOH: Zn													
Total Containers:	103		Corrected Temperature:		NaOH+Ascorbic Acid: SAPC													
					Sample Comments													

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont										
SW-34	0-9	12/15/2023	12:00	X		Comp	1	X	X	X							
SW-35	3-9	12/15/2023	12:02	X		Comp	1	X	X	X							
SW-36	0-3	12/15/2023	12:04	X		Comp	1	X	X	X							
SW-37	0-3	12/15/2023	12:06	X		Comp	1	X	X	X							
SW-38	0-3	12/15/2023	12:08	X		Comp	1	X	X	X							
SW-39	0-3	12/15/2023	12:10	X		Comp	1	X	X	X							
SW-40	0-9	12/15/2023	12:12	X		Comp	1	X	X	X							
SW-41	0-10	12/15/2023	12:14	X		Comp	1	X	X	X							
SW-42	3-10	12/15/2023	12:16	X		Comp	1	X	X	X							
SW-43	0-10	12/15/2023	12:18	X		Comp	1	X	X	X							

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10-18-23 1055			





Page 11 of 11

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"/> RRP <input type="checkbox"/>	Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADaPT <input type="checkbox"/>	Other: _____

Additional Comments:

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<small>These terms will be enforced unless previously negotiated.</small>					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10-18-23 1055	2		
			4		
			6		



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December 21, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND 14-23 STATE UNIT 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/23 10:55.

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



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 50 3 (H236707-01)**

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	12/18/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	48.0	16.0	12/18/2023	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	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 51 3 (H236707-02)**

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	12/18/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.60	127	6.00	12.7		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	400	16.0	12/18/2023	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	12/19/2023	ND	216	108	200	3.12	
DRO >C10-C28*	27.3	10.0	12/19/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 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:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 52 3 (H236707-03)**

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	12/18/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.60	127	6.00	12.7		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	368	16.0	12/18/2023	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	12/19/2023	ND	216	108	200	3.12	
DRO >C10-C28*	16.9	10.0	12/19/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 53 3 (H236707-04)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/18/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	64.1	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 54 3 (H236707-05)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/18/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	28.9	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 55 3 (H236707-06)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/18/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 56 3 (H236707-07)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTEX	<0.300	0.300	12/19/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/18/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	70.8	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 57 3 (H236707-08)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	114	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 58 3 (H236707-09)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	22.5	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 59 3 (H236707-10)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	48.0	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	41.8	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 60 3 (H236707-11)**

BTX 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<b>0.051</b>	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<b>0.461</b>	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<b>1.98</b>	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTX	<b>2.49</b>	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 165 % 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	<b>112</b>	16.0	12/19/2023	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*	<b>62.0</b>	10.0	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<b>695</b>	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 61 3 (H236707-12)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	80.0	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	122	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 62 3 (H236707-13)**

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	12/19/2023	ND	2.50	125	2.00	12.9		
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	16.0	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 63 3 (H236707-14)**

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	12/18/2023	ND	2.49	125	2.00	0.0559		
Toluene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	2.52		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	3.77		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.19	120	6.00	4.53	QR-03	
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	144	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	82.9	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 64 3 (H236707-15)**

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	12/18/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/18/2023	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	96.0	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	242	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 65 3 (H236707-16)**

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	12/18/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.19	120	6.00	4.53	
Total BTX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	111	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 66 3 (H236707-17)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	320	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	183	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 67 3 (H236707-18)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
<b>DRO &gt;C10-C28*</b>	<b>21.2</b>	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 68 3 (H236707-19)**

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	12/19/2023	ND	2.49	125	2.00	0.0559		
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	400	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	43.7	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 69 3 (H236707-20)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	144	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	79.8	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 70 3 (H236707-21)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48.0	16.0	12/19/2023	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 71 3 (H236707-22)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	12/19/2023	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	12/19/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 72 5 (H236707-23)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	144	16.0	12/19/2023	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	12/19/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 73 5 (H236707-24)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEx	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	160	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	QR-03
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 74 5 (H236707-25)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	112	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 75 5 (H236707-26)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	128	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 76 5 (H236707-27)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTX	<0.300	0.300	12/19/2023	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	144	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 77 5 (H236707-28)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 78 5 (H236707-29)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	368	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 79 5 (H236707-30)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 80 5 (H236707-31)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	96.0	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 81 5 (H236707-32)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	144	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 82 5 (H236707-33)**

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	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	22.8	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 83 5 (H236707-34)**

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	12/18/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	224	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 84 5 (H236707-35)**

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	12/18/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18		
Total BTEx	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 85 5 (H236707-36)**

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	12/18/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18		
Total BTEx	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 86 10 (H236707-37)**

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	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	64.0	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 87 10 (H236707-38)**

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	12/18/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18		
Total BTEx	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 88 10 (H236707-39)**

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	12/18/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18		
Total BTEx	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 89 10 (H236707-40)**

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	12/18/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	112	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 90 10 (H236707-41)**

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	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	576	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 91 10 (H236707-42)**

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	12/18/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18		
Total BTEx	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 92 10 (H236707-43)**

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	12/18/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	224	16.0	12/19/2023	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 93 10 (H236707-44)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	64.0	16.0	12/19/2023	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 94 10 (H236707-45)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	352	16.0	12/19/2023	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 95 10 (H236707-46)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	432	16.0	12/19/2023	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 96 10 (H236707-47)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/19/2023	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 97 10 (H236707-48)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	80.0	16.0	12/19/2023	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 98 2 (H236707-49)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	3440	16.0	12/19/2023	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	92.7	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	20.5	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 99 2 (H236707-50)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1920	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	44.1	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 100 4 (H236707-51)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	96.0	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 101 4 (H236707-52)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 102 4 (H236707-53)**

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	12/19/2023	ND	2.19	110	2.00	0.569		
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	80.0	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 103 4 (H236707-54)**

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	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 104 4 (H236707-55)**

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	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEx	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	128	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	16.5	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 105 4 (H236707-56)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	3040	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	32.4	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 106 5 (H236707-57)**

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	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEx	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	256	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 12/18/2023  
Reported: 12/21/2023  
Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
Project Number: 237863  
Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 1 0-1 (H236707-58)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	80.0	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 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:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 2 1-3 (H236707-59)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	496	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 12/18/2023  
 Reported: 12/21/2023  
 Project Name: OUTLAND 14-23 STATE UNIT 2BS 2H  
 Project Number: 237863  
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 12/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 3 0-1 (H236707-60)**

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	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	16.0	16.0	12/19/2023	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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".

---

Celey D. Keene, Lab Director/Quality Manager



## Chain of Custody

Work Order No: H236707

Page 1 of 11

Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	



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]

Additional Comments:

Esharc = Permian on some Jars

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1		2		3	12-18-23 1055
4		5		6	
7		8		9	
10		11		12	





## Chain of Custody

Work Order No: H236707

Page 2 of 11



Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>		
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:		

Project Name:		Outland 14-23 State 2BS #2H			Turn Around			Pres. Code	ANALYSIS REQUEST														Preservative Codes				
Project Number:		237863			<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																		None: NO      DI Water: H <sub>2</sub> O Cool: Cool      MeOH: Me HCL: HC      HNO <sub>3</sub> : HN H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na 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				
Project Location:		Lea Co, NM			Due Date:			Parameters	BTEX 8021B	TPH 8015M ( GRO + DRO + MRO)	Chloride 4500	HOLD															
Sampler's Name:		Kenny Han			TAT starts the day received by the lab, if received by 4:30pm																						
PO #																											
SAMPLE RECEIPT		Temp Blank:		Yes	(No)	Wet Ice:																				(Yes)	No
Received Intact:		(Yes)		No	Thermometer ID:		140																				
Cooler Custody Seals:		Yes		(No)	N/A	Correction Factor:		—																			
Sample Custody Seals:		Yes		(No)	N/A	Temperature Reading:		-10.0 ±																			
Total Containers:		103		Corrected Temperature:		—																					
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont															Sample Comments					
CS-60	3	12/15/2023	9:20	X		Comp	1																				
CS-61	3	12/15/2023	9:22	X		Comp	1																				
CS-62	3	12/15/2023	9:24	X		Comp	1																				
CS-63	3	12/15/2023	9:26	X		Comp	1																				
CS-64	3	12/15/2023	9:28	X		Comp	1																				
CS-65	3	12/15/2023	9:30	X		Comp	1																				
CS-66	3	12/15/2023	9:32	X		Comp	1																				
CS-67	3	12/15/2023	9:34	X		Comp	1																				
CS-68	3	12/15/2023	9:36	X		Comp	1																				
CS-69	3	12/15/2023	9:38	X		Comp	1																				

Additional Comments:

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time	Relinquished by: (Signature)		Received by: (Signature)		Date/Time
1				12-18-23 1055	2				
3					4				
5					6				





## Chain of Custody

Work Order No: H230707

Page 3 of 11



Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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]

Additional Comments:

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1		2		3	12-8-23 1055
3		4		5	
5		6			





## Chain of Custody

Work Order No: H23u707

Page 4 of 11

Page 66 of 68



Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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"/> RRP <input type="checkbox"/>	Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADaPT <input type="checkbox"/>	Other: <input type="checkbox"/>

Project Name:		Outland 14-23 State 2BS #2H			Turn Around			Pres. Code	ANALYSIS REQUEST														Preservative Codes						
Project Number:		237863			<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush				Parameters	BTEX 8021B	TPH 8015M ( GRO + DRO + MRO)	Chloride 4500											HOLD	None: NO      DI Water: H <sub>2</sub> O					
Project Location		Lea Co, NM			Due Date:			TAT starts the day received by the lab, if received by 4:30pm																Cool: Cool      MeOH: Me					
Sampler's Name:		Kenny Han																						HCL: HC      HNO <sub>3</sub> : HN					
PO #																								H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes	No	Wet Ice:		Yes																No	H <sub>3</sub> PO <sub>4</sub> : HP				
Received Intact:		Yes		No	Thermometer ID:		140																	NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:		Yes		No	Correction Factor:																			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:		Yes		No	Temperature Reading:		-10.0																	Zn Acetate+NaOH: Zn					
Total Containers:		103		Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC					
Sample Identification		Depth (ft bgs)		Date		Time		Soil																Water		Grab/ Comp		# of Cont	
CS-80		5		12/15/2023		10:00		X				Comp		1		X X X													
CS-81		5		12/15/2023		10:02		X				Comp		1		X X X													
CS-82		5		12/15/2023		10:04		X				Comp		1		X X X													
CS-83		5		12/15/2023		10:06		X				Comp		1		X X X													
CS-84		5		12/15/2023		10:08		X				Comp		1		X X X													
CS-85		5		12/15/2023		10:10		X				Comp		1		X X X													
CS-86		10		12/15/2023		10:12		X				Comp		1		X X X													
CS-87		10		12/15/2023		10:14		X				Comp		1		X X X													
CS-88		10		12/15/2023		10:16		X				Comp		1		X X X													
CS-89		10		12/15/2023		10:18		X				Comp		1		X X X													

Additional Comments:

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1		2		12-18-23	10:55
3		4			
5		6			





## Chain of Custody

Work Order No: 1236707

Page 5 of 11



Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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"/> RRP <input type="checkbox"/>	Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADaPT <input type="checkbox"/>	Other: <input type="checkbox"/>

[illegible]

Additional Comments:

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1				12-18-23 1055		2					
3						4					
5						6					



## Chain of Custody



Work Order No: H236707

Page 6 of 11



Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

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"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>		
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:		

[illegible]

Additional Comments:

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Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1			12.8.23	1055	
3					
5					



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

---

August 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/26/24 14:51.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/26/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 47 B (H245177-01)**

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	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	08/27/2024	ND	448	112	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	08/27/2024	ND	188	94.0	200	3.41	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	199	99.4	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/26/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW1 (H245177-02)**

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	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	80.0	16.0	08/27/2024	ND	448	112	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	08/27/2024	ND	188	94.0	200	3.41	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	199	99.4	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 105 % 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



---

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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





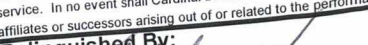


101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**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.

Date: 10/21/2014 Received By: [Signature] Verbal Result: All Results are Negative

Relinquished By:  Relinquished By: _____ Delivered By: (Circle One) _____ Other: _____		Date: 8-26-24 Time: 1451 Date: _____ Time: _____	Received By:  Received By: _____	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: <a href="mailto:pm@etechenv.com">pm@etechenv.com</a> REMARKS: _____
Observed Temp. °C -6.8 Corrected Temp. °C 7.4	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY:  (Initials)	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

FORM-006 R 3.5 08/05/24





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

August 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 14:55.

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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/27/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 1 @ 10' (H245214-01)**

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	08/29/2024	ND	2.11	106	2.00	4.12	
Toluene*	<0.050	0.050	08/29/2024	ND	1.98	99.1	2.00	4.59	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.01	101	2.00	4.46	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.98	99.6	6.00	4.36	
Total BTEx	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	400	16.0	08/29/2024	ND	416	104	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	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/27/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 38 E (H245214-02)**

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	08/29/2024	ND	2.11	106	2.00	4.12	
Toluene*	<0.050	0.050	08/29/2024	ND	1.98	99.1	2.00	4.59	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.01	101	2.00	4.46	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.98	99.6	6.00	4.36	
Total BTEX	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	128	16.0	08/29/2024	ND	416	104	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	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/27/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS 61 B @ 6' (H245214-03)**

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	08/29/2024	ND	2.11	106	2.00	4.12		
Toluene*	<0.050	0.050	08/29/2024	ND	1.98	99.1	2.00	4.59		
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.01	101	2.00	4.46		
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.98	99.6	6.00	4.36		
Total BTEX	<0.300	0.300	08/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	320	16.0	08/29/2024	ND	416	104	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	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 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

---

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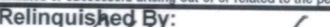


A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

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Relinquished By: 		Date: 8-27-24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 1455				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS: Bush added 8/29/24 24hr	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C -3.8		Sample Condition Cool Intact		CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -4.4		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140 Correction Factor -0.6°C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	



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

---

August 29, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/28/24 14:48.

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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/28/2024  
 Reported: 08/29/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 43 B @ 10' (H245243-01)**

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	08/28/2024	ND	2.19	110	2.00	2.05		
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630		
Total BTEX	<0.300	0.300	08/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	256	16.0	08/29/2024	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	08/29/2024	ND	217	108	200	1.10	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	219	110	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 59.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/28/2024  
 Reported: 08/29/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 47 B @ 7' (H245243-02)**

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	08/28/2024	ND	2.19	110	2.00	2.05	
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630	
Total BTEx	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/29/2024	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	08/28/2024	ND	222	111	200	0.583	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	229	114	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/28/2024  
 Reported: 08/29/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 82 B @ 10' (H245243-03)**

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	08/28/2024	ND	2.19	110	2.00	2.05	
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630	
Total BTEX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	224	16.0	08/29/2024	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	08/29/2024	ND	222	111	200	0.583	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	229	114	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/28/2024  
 Reported: 08/29/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 52 A (H245243-04)**

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	08/28/2024	ND	2.19	110	2.00	2.05		
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630		
Total BTX	<0.300	0.300	08/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/29/2024	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	08/29/2024	ND	222	111	200	0.583	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	229	114	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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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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

Company Name: Etech Environmental & Safety Solutions, Inc.		<b>BILL TO</b>		ANALYSIS REQUEST																							
Project Manager: Robbie Runnels		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: 2617 West Marland		Company: Permian Resources																									
City: Hobbs State: NM Zip: 88240		Attn: Montgomery Floyd																									
Phone #: (575) 264-9884 Fax #:		Address:																									
Project #: 20751 Project Owner: Permian Resources		City:																									
Project Name: Outland 14-23 State 2BS 2H		State: Zip:																									
Project Location: 32.486037, -103.445132		Phone #:																									
Sampler Name: Tania Felts		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.																									

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Relinquished By:		Date: 08-28-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1448		Time:		Received By:		All Results are emailed. Please provide Email address: <a href="mailto:pm@etechnv.com">pm@etechnv.com</a>	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:		Received By:		RUSH SAMPLES - 24 HOUR	
Delivered By: (Circle One)		Observed Temp. °C: -0.8		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -7.4		CHECKED BY: (Initials)		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
						Thermometer ID #140 Correction Factor -0.6°C	
						Cool Intact Observed Temp. °C	
						Corrected Temp. °C	



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---

August 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/29/24 8:15.

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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/29/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 79 B @ 11' (H245255-01)**

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	08/29/2024	ND	1.92	95.9	2.00	15.7		
Toluene*	<0.050	0.050	08/29/2024	ND	2.03	102	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.25	112	2.00	5.04		
Total Xylenes*	<0.150	0.150	08/29/2024	ND	6.86	114	6.00	4.25		
Total BTEx	<0.300	0.300	08/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	96.0	16.0	08/29/2024	ND	416	104	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	08/29/2024	ND	204	102	200	1.54	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	195	97.7	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/29/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 36 B (H245255-02)**

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	08/29/2024	ND	1.92	95.9	2.00	15.7		
Toluene*	<0.050	0.050	08/29/2024	ND	2.03	102	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.25	112	2.00	5.04		
Total Xylenes*	<0.150	0.150	08/29/2024	ND	6.86	114	6.00	4.25		
Total BTX	<0.300	0.300	08/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/29/2024	ND	416	104	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	08/29/2024	ND	204	102	200	1.54	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	195	97.7	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/29/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 37 B (H245255-03)**

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	08/29/2024	ND	1.92	95.9	2.00	15.7		
Toluene*	<0.050	0.050	08/29/2024	ND	2.03	102	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.25	112	2.00	5.04		
Total Xylenes*	<0.150	0.150	08/29/2024	ND	6.86	114	6.00	4.25		
Total BTX	<0.300	0.300	08/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/29/2024	ND	416	104	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	08/29/2024	ND	204	102	200	1.54	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	195	97.7	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 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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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

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Robbie Runnels				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Permian Resources																									
City: Hobbs State: NM Zip: 88240				Attn: Montgomery Floyd																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 20751 Project Owner: Permian Resources				City:																									
Project Name: Outland 14-23 State 2BS 2H				State: Zip:																									
Project Location: 32.486037, -103.445132				Phone #:																									
Sampler Name: Tania Felts				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																	
								GROUNDWATER		WASTEWATER																			
								SOIL																					
								OIL																					
								SLUDGE																					
								OTHER:																					
								ACID/BASE:																					
								ICE / COOL																					
								OTHER:																					
												DATE		TIME															
H245255		CS 79 B @ 11'		C		1						X		8/28/24				X X X											
1		SW 36 B		C		1						X		8/28/24				X X X											
2		SW 37 B		C		1						X		8/28/24				X X X											
3																													

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.

Relinquished By:		Date: 8-29-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 8:15		Time: 8:15		Time: 8:15		All Results are emailed. Please provide Email address: <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:		Time:		RUSH SAMPLES - 24 HOUR	
Delivered By: (Circle One)		Observed Temp. °C -14.0°C		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -14.0°C		CHECKED BY: (Initials) AR		Thermometer ID #140 Correction Factor -0.6°C	
						Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	



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

August 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/29/24 15:13.

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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/29/2024  
 Reported: 08/30/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 08/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 61 B (H245284-01)**

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	08/29/2024	ND	1.96	97.8	2.00	2.34	
Toluene*	<0.050	0.050	08/29/2024	ND	2.03	101	2.00	1.61	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.07	104	2.00	0.00655	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	6.43	107	6.00	0.556	
Total BTEx	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48.0	16.0	08/30/2024	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	08/30/2024	ND	225	112	200	2.10	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	230	115	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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

---

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\*=Accredited Analyte

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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

[illegible]



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

September 11, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 09/06/24 8:17.

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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/06/2024  
 Reported: 09/11/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 09/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: MERCHANT OUTLAND PIT (H245395-01)**

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	09/09/2024	ND	1.91	95.3	2.00	2.29		
Toluene*	<0.050	0.050	09/09/2024	ND	1.88	93.8	2.00	0.525		
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.91	95.5	2.00	0.939		
Total Xylenes*	<0.150	0.150	09/09/2024	ND	5.69	94.9	6.00	0.901		
Total BTEX	<0.300	0.300	09/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	09/09/2024	ND	400	100	400	7.69		

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	09/06/2024	ND	202	101	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	191	95.3	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 58.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.5 % 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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---

### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

---

October 16, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/14/24 15:03.

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".

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 98A @ 13' (H246242-01)**

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	10/15/2024	ND	2.03	102	2.00	2.65		
<b>Toluene*</b>	<b>0.083</b>	0.050	10/15/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 99A @ 12' (H246242-02)**

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	10/15/2024	ND	2.03	102	2.00	2.65	
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59	
Total BTEX	<0.300	0.300	10/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	<16.0	16.0	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 111 @ 12' (H246242-03)**

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	10/15/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59		
Total BTEx	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	<16.0	16.0	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 112 @ 13' (H246242-04)**

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	10/15/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59		
Total BTEx	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	16.0	16.0	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 113 @ 12' (H246242-05)**

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	10/15/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/15/2024	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	<16.0	16.0	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 114 @ 12' (H246242-06)**

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	10/15/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	16.0	16.0	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 24B @ 5' (H246242-07)**

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	10/16/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 108 @ 2' (H246242-08)**

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	10/16/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	272	16.0	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	13.8	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/14/2024  
 Reported: 10/16/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 32 B (H246242-09)**

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	10/16/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	416	16.0	10/15/2024	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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 60.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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





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

October 21, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/17/24 16:16.

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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/17/2024  
 Reported: 10/21/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 28 A @ 12' (H246372-01)**

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	10/18/2024	ND	2.18	109	2.00	1.04		
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07		
Total BTX	<0.300	0.300	10/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	176	16.0	10/18/2024	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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/17/2024  
 Reported: 10/21/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 29 A @ 12' (H246372-02)**

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	10/18/2024	ND	2.18	109	2.00	1.04	
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07	
Total BTEx	<0.300	0.300	10/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	144	16.0	10/18/2024	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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/17/2024  
 Reported: 10/21/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 105 @ 29' (H246372-03)**

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	10/18/2024	ND	2.18	109	2.00	1.04	
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07	
Total BTX	<0.300	0.300	10/18/2024	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	16.0	16.0	10/18/2024	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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/17/2024  
 Reported: 10/21/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 115 @ 12' (H246372-04)**

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	10/18/2024	ND	2.18	109	2.00	1.04		
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07		
Total BTEX	<0.300	0.300	10/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	10/18/2024	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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/17/2024  
 Reported: 10/21/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 116 @ 12' (H246372-05)**

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	10/18/2024	ND	2.18	109	2.00	1.04		
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12		
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77		
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07		
Total BTEX	<0.300	0.300	10/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	10/18/2024	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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
<b>Project Manager:</b> Robbie Runnels				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																				
<b>Address:</b> 2617 West Marland				<b>Company:</b> Permian Resources																								
<b>City:</b> Hobbs		<b>State:</b> NM		<b>Zip:</b> 88240		<b>Attn:</b> Montgomery Floyd																						
<b>Phone #:</b> (575) 264-9884		<b>Fax #:</b>		<b>Address:</b>																								
<b>Project #:</b> 20751		<b>Project Owner:</b> Permian Resources				<b>City:</b>																						
<b>Project Name:</b> Outland 14-23 State 2BS 2H				<b>State:</b>																<b>Zip:</b>								
<b>Project Location:</b> 32.486037, -103.445132				<b>Phone #:</b>																<b>Fax #:</b>								
<b>Sampler Name:</b> Miguel Ramirez																												
<b>FOR LAB USE ONLY</b>																												
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>GROUNDWATER</b>	<b>WASTEWATER</b>	<b>SOIL</b>	<b>OIL</b>	<b>SLUDGE</b>	<b>OTHER :</b>	<b>ACID/BASE:</b>	<b>ICE / COOL</b>	<b>OTHER :</b>	<b>DATE</b>	<b>TIME</b>														
12403D	CS 28 A @ 12'	C	1			X					X		10/16/24		X	X	X											
2	CS 29 A @ 12'	C	1			X					X		10/16/24		X	X	X											
3	CS 105 @ 2029'	C	1			X					X		10/16/24		X	X	X											
4	CS 115 @ 12'	C	1			X					X		10/16/24		X	X	X											
5	CS 116 @ 12'	C	1			X					X		10/16/24		X	X	X											

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<b>Relinquished By:</b> 	<b>Date:</b> 10-17-24 <b>Time:</b> 10:10	<b>Received By:</b> 	<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>	<b>REMARKS:</b> Bill Rush to Etech please!
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Observed Temp. °C:</b> -8.6 <b>Corrected Temp. °C:</b> -9.2	<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <b>Thermometer ID #140</b> <b>Correction Factor -0.6°C</b>
		<b>CHECKED BY: (Initials)</b> sf	<b>Bacteria (only) Sample Condition</b> Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Corrected Temp. °C</b>

FORM-006 R 3.5 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

---

October 23, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/22/24 8:11.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/22/2024  
 Reported: 10/23/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW-54B (H246418-01)**

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	10/22/2024	ND	1.94	97.2	2.00	5.59	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55	
Total BTX	<0.300	0.300	10/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	176	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 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:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/22/2024  
 Reported: 10/23/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW-55B (H246418-02)**

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	10/22/2024	ND	1.94	97.2	2.00	5.59		
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85		
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89		
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55		
Total BTEX	<0.300	0.300	10/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	288	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 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:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/22/2024	Sampling Date:	10/16/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

**Sample ID: SW-13B (H246418-03)**

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	10/22/2024	ND	1.94	97.2	2.00	5.59		
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85		
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89		
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55		
Total BTEX	<0.300	0.300	10/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	160	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/22/2024  
 Reported: 10/23/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW-14B (H246418-04)**

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	10/22/2024	ND	1.94	97.2	2.00	5.59		
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85		
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89		
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55		
Total BTEx	<0.300	0.300	10/22/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/22/2024  
 Reported: 10/23/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW-62B (H246418-05)**

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	10/22/2024	ND	1.94	97.2	2.00	5.59		
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85		
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89		
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55		
Total BTEx	<0.300	0.300	10/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/22/2024  
 Reported: 10/23/2024  
 Project Name: OUTLAND 14-23 STATE 2BS 2H  
 Project Number: 20751  
 Project Location: PERMIAN - LEA CO NM

Sampling Date: 10/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW-63B (H246418-06)**

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	10/22/2024	ND	1.94	97.2	2.00	5.59		
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85		
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89		
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55		
Total BTEx	<0.300	0.300	10/22/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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





# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																				
Project Manager: <u>Joel Lowry</u>		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																				
Address: P.O. Box 301		Company: <u>Petman Resources</u>																						
City: Lovington State: NM Zip: 88260		Attn: <u>Montgomery Floyd</u>																						
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address:																						
Project #: <u>20751</u> Project Owner: <u>Petman Resources</u>		City:																						
Project Name: <u>Outland 14-23 state ABS 2H</u>		State: Zip:																						
Project Location: <u>32.486037, -103.445132</u>		Phone #:																						
Sampler Name: <u>Miguel Ramirez</u>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
<u>12010418</u>																								
<u>1</u>	<u>SW-54B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>13:00</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>2</u>	<u>SW-55B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>13:30</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>3</u>	<u>SW-13B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>14:00</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>4</u>	<u>SW-14B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>14:30</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>5</u>	<u>SW-62B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>15:00</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>6</u>	<u>SW-63B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>15:30</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<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. 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: <u>[Signature]</u>		Date: <u>10-20-24</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																
Relinquished By:		Time: <u>8:11</u>		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																
		Date:				REMARKS: <u>24 hr Rush please! Bill rush to Etech</u>																		
		Time:				Please email results to pm@etechenv.com.																		
Delivered By: (Circle One) <u>-761/C-0-01</u>				Sample Condition				CHECKED BY:																
Sampler - UPS - Bus - Other: <u>-8.2C/#140</u>				Cool Intact				(Initials)																
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<u>AD</u>																

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



## **Appendix D**

### **Photographic Log**

Photographic Log

<b>Photo Number:</b> 1	<div>10/24/24, 7:44 AM +32.485909,-103.445216 NM,Eunice</div> 
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b> View of excavation activities.	

<b>Photo Number:</b> 2	<div>Oct 9, 2024 at 11:33:41 AM</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b> View of excavation activities.	



## Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> North	
<b>Photo Description:</b> View of excavation activities.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> East	
<b>Photo Description:</b> View of excavation activities.	

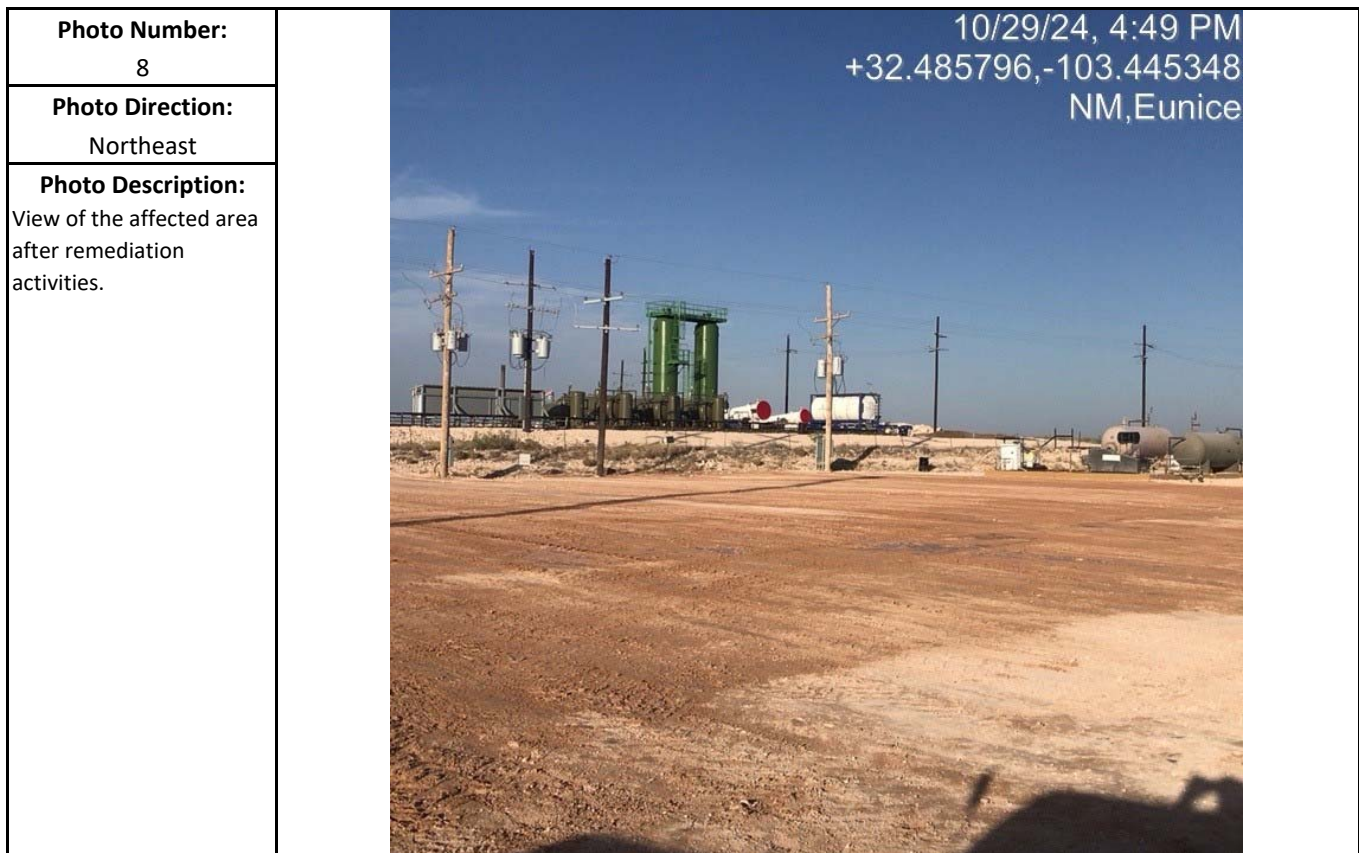


Photographic Log

<b>Photo Number:</b> 5	<div>Oct 25, 2024 at 12:19:35 PM Eunice NM 88231 United States</div> 
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b> View of backfilling and compacting activities.	

<b>Photo Number:</b> 6	<div>10/18/24, 9:55 AM +32.486108, -103.445185 NM Eunice</div> 
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b> View of portion of the excavated area.	

## Photographic Log





## **Appendix E**

### **Regulatory Correspondence**

OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

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

Submission Information

Submission ID:	293175	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	12/11/2023		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	2,500
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/13/2023
Time sampling will commence	09:00 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	Kenny Han 575-988-8856
Please provide any information necessary for navigation to sampling site	32.486074,-103.445038



Comments

No comments found for this submission.

Conditions

**Summary:**      *khart* (12/11/2023), 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.

Reasons

No reasons found for this submission.

Go Back

OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

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

Submission Information

Submission ID:	294029	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	12/13/2023		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/15/2023
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	tyler kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	32.486074,-103.445038

Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (12/13/2023)*, 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.

Reasons

No reasons found for this submission.

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OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

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

Submission Information

Submission ID:	323678	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/20/2024
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	Tyler Kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (3/15/2024)*, 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.

Reasons

No reasons found for this submission.

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OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

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

Submission Information

Submission ID:	323587	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/19/2023
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	Tyler Kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	32.48613,-103.44518



Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (3/15/2024)*, 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.

Reasons

No reasons found for this submission.

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OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

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

Submission Information

Submission ID:	294838	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	12/14/2023		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2023
Time sampling will commence	09:00 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	Unknown at this time
Please provide any information necessary for navigation to sampling site	see gps

Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (12/14/2023)*, 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	323682	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/19/2024
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	tyler kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (3/15/2024)*, 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	323684	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2024
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	Tyler Kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	32.48613,-103.44518



Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (3/15/2024)*, 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	323685	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/21/2023
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	Tyler Kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	32.48613,-103.44518

Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (3/15/2024)*, 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	323687	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/22/2024
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	TYLER KIMBALL 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (3/15/2024)*, 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	326236	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/25/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2024
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	TYLER KIMBALL 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496



Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (3/25/2024)*, 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	326237	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/25/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/28/2024
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	TYLER KIMBALL 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

Comments

No comments found for this submission.

Conditions

**Summary:**      *khart (3/25/2024)*, 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	324572	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	04/10/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	12,000
What is the estimated number of samples that will be gathered	60
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/12/2024
Time sampling will commence	09:00 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	Tyler Kimball (432)582-40541
Please provide any information necessary for navigation to sampling site	GPS: 32.486196, -103.445067

Comments

No comments found for this submission.

Conditions

**Summary:**                      mtaylorpr (4/10/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	376523	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

**Summary:**                      mtaylorpr (8/22/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	349842	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	05/31/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/03/2024
Time sampling will commence	09:00 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	Becky Haskell 432-766-1918
Please provide any information necessary for navigation to sampling site	32.48612,-103.44466

Comments

No comments found for this submission.

Conditions

**Summary:**      mffloyd (5/31/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	376504	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	2,600
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/26/2024
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	Tania Felts 432.313.1566
Please provide any information necessary for navigation to sampling site	32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

**Summary:**                      mtaylorpr (8/22/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	376522	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/26/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

Summary:      mtaylorpr (8/22/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	376526	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/30/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046



Comments

No comments found for this submission.

Conditions

**Summary:**                      *mtaylorpr* (8/22/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	376527	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/02/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

Summary:      mtaylorpr (8/22/2024), 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.

Reasons

No reasons found for this submission.

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OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

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

Submission Information

Submission ID:	376528	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

Summary:      mtaylorpr (8/22/2024), 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.

Reasons

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

Submission Information

Submission ID:	391267	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	10/09/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	4,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2024
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	Miguel Ramirez, 432-282-9140
Please provide any information necessary for navigation to sampling site	GPS: 32.485716 , -103.444967

Comments

No comments found for this submission.

Conditions

**Summary:**                      mtaylorpr (10/9/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	391259	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	10/09/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	4,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2024
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	Miguel Ramirez, 432-282-9140
Please provide any information necessary for navigation to sampling site	GPS: 32.485716, -103.444967

Comments

No comments found for this submission.

Conditions

**Summary:**                      mtaylorpr (10/9/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	376536	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

**Summary:**                      mtaylorpr (8/22/2024), 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.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	376533	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

Summary:                      mtaylorpr (8/22/2024), 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.

Reasons

No reasons found for this submission.

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OCD Permitting

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

Submission Information

Submission ID:	376531	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/09/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046



Comments

No comments found for this submission.

Conditions

Summary:                      mtaylorpr (8/22/2024), 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.

Reasons

No reasons found for this submission.

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OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

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

Submission Information

Submission ID:	376530	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/06/2024
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	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

**Summary:**                      *mtaylorpr* (8/22/2024), 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.

Reasons

No reasons found for this submission.

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Form C-141

State of New Mexico

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Oil Conservation Division

Incident ID	
District RP	1RP5260
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

State of New Mexico  
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

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: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

Form C-141

State of New Mexico

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Site Assessment Report and Proposed Remediation Workplan

## Chisholm Energy Operating, LLC Outland 14-23 State Com

Lea County, New Mexico

Unit Letter "C/D", Section 14, Township 21 South, Range 34 West

Latitude 32.48571 North, Longitude 103.44495 West

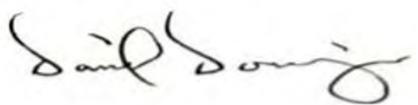
NMOCD Reference No. 1RP-5260

Prepared By:

### Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway

Lovington, New Mexico 88260



Daniel Dominguez



Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette



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PROPOSED REMEDIATION PLAN.....	5.0
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- Figure 2 - Aerial Proximity Map
- Figure 3 - Site & Sample Location Map

TABLES

- Table 1 - Concentrations of BTEX, TPH and/or Chloride in Soil

APPENDICES

- Appendix A - Depth to Groundwater Information
- Appendix B - Field Data and Soil Profile Logs
- Appendix C - Laboratory Analytical Reports
- Appendix D - Photographic Log

## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chisholm Energy Operating, LLC, has prepared this Report for the Release Site known as the Outland 14-23 State Com. Details of the release are summarized below:

### Location of Release Source

Latitude: 32.48571 Longitude: -103.44495

Provided GPS are in WGS84 format.

Site Name:	Outland 14-23 State Com	Site Type:	Tank Battery
Date Release Discovered:	10/21/2018	API # (if applicable):	30-025-44157

Unit Letter	Section	Township	Range	County
"C/D"	14	21S	34W	Lea

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

### Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20-30	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<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	Volume/Weight Recovered

#### Cause of Release:

While filling Frac tanks to prepare for completion operations for the 2H and 3H wells, a valve on the back of the tank was open which allowed water to escape from the tank.

### Initial Response

<input checked="" type="checkbox"/> The source of the release has been stopped.
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	<b>&gt;100</b>		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
>100	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

## 4.0 INITIAL SITE ASSESSMENT

On **February 12, 2019**, Etech conducted an initial site assessment. During the initial site assessment, four (4) surface samples (SP1 through SP4) were collected from within the release margins. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample SP1, which exhibited a chloride concentration of 32,400 mg/kg. Analytical results indicated TPH concentrations exceeded the NMOCD Closure Criteria in soil samples SP1, SP3 and SP4. A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B.

On **August 2, 2019**, Etech revisited the Site in an effort to further characterize the Site. During the site visit, fourteen (14) soil samples (SP-1R, SP3-#, SP4-R, EH-1 @ Surf., EH-1 @ 1', SH1 @ Surf., SH1 @ 1', SH2 @ Surf., SH2 @ 1', WH1 @ Surf., SH1 @ 1', NH1 @ Surf., NH1 @ 1', NH2 @ Surf. and NH2 @ 1') were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples SH2 @ Surf., which exhibited a chloride concentration of 22,800 mg/kg. Analytical results indicated TPH concentrations exceeded the NMOCD Closure Criteria in soil samples SP3-R, EH 1 @ Surf., SH1 @ Surf., SH2 @ Surf., WH1 @ Surf., NH1 @ Surf., and NH2 @ Surf. Based on laboratory analytical results, further delineation was required in the areas characterized by soil samples SP3-R, EH 1 @ Surf., SH1 @ Surf., SH2 @ Surf., WH1 @ Surf., NH1 @ Surf., and NH2 @ Surf.

On **September 16, 2019**, Etech revisited the Site in an effort to further delineate the affected areas characterized by soil samples SP3-R, EH 1 @ Surf., SH1 @ Surf., SH2 @ Surf., WH1 @ Surf., NH1 @ Surf., and NH2 @ Surf. During the site visit, twelve (12) soil samples (SP3b @ 2', SP3b @ 4', SP3b @ 6', SP3b @ 8', SP3b @ 10', SP3b @ 11', SH-1b @ Surf., SH-2b @ Surf., ) were collected and submitted to the laboratory for analysis of TPH and/or chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples SP3b @ 2', SP3b @ 4', and SP3b @ 6', which exhibited TPH concentrations of 43,650, 18,170 and 2,500 mg/kg, respectively.

Based on field observations and field test data, **thirty-one (31)** delineation soil samples were submitted to the laboratory for analysis of BTEX, TPH and/or Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 8 ft. bgs and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

## 5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Chisholm Energy Operating, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria in the areas characterized by sample points SP1 and SP4 to a depth of approximately 1 ft. bgs and sample point SP3/SP3b to a depth of approximately 8 ft. bgs.
- The floor and sidewalls of the excavated area will be advanced until laboratory analytical results indicated impacted soil affected above the NMOCD Closure Criteria has been removed.
- Excavated material will be temporarily stockpiled on-site, then transported to an NMOCD-approved disposal facility.
- Upon excavating impacted soil affected above the NMOCD Closure Criteria, collect the requisite excavation confirmation soil samples.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.
- Excavation backfill will be contoured to match the surrounding topography.
- Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

## 6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **300 square feet**. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

## 7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of the Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **400 cubic yards** is in need of removal.

## 8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

## 9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Basis has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Chisholm Energy Operating, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or Chisholm Energy Operating, LLC.

## 10.0 DISTRIBUTION

***Chisholm Energy Operating, LLC***

*801 Cherry St.*

*Suite 1200*

*FT Worth, TX 76102*

***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 1*

*1625 N. French Drive*

*Hobbs, NM 88240*

***Hobbs Field Office***

*New Mexico State Land Office*

*2827 North Dal Paso Street*

*Suite 117*

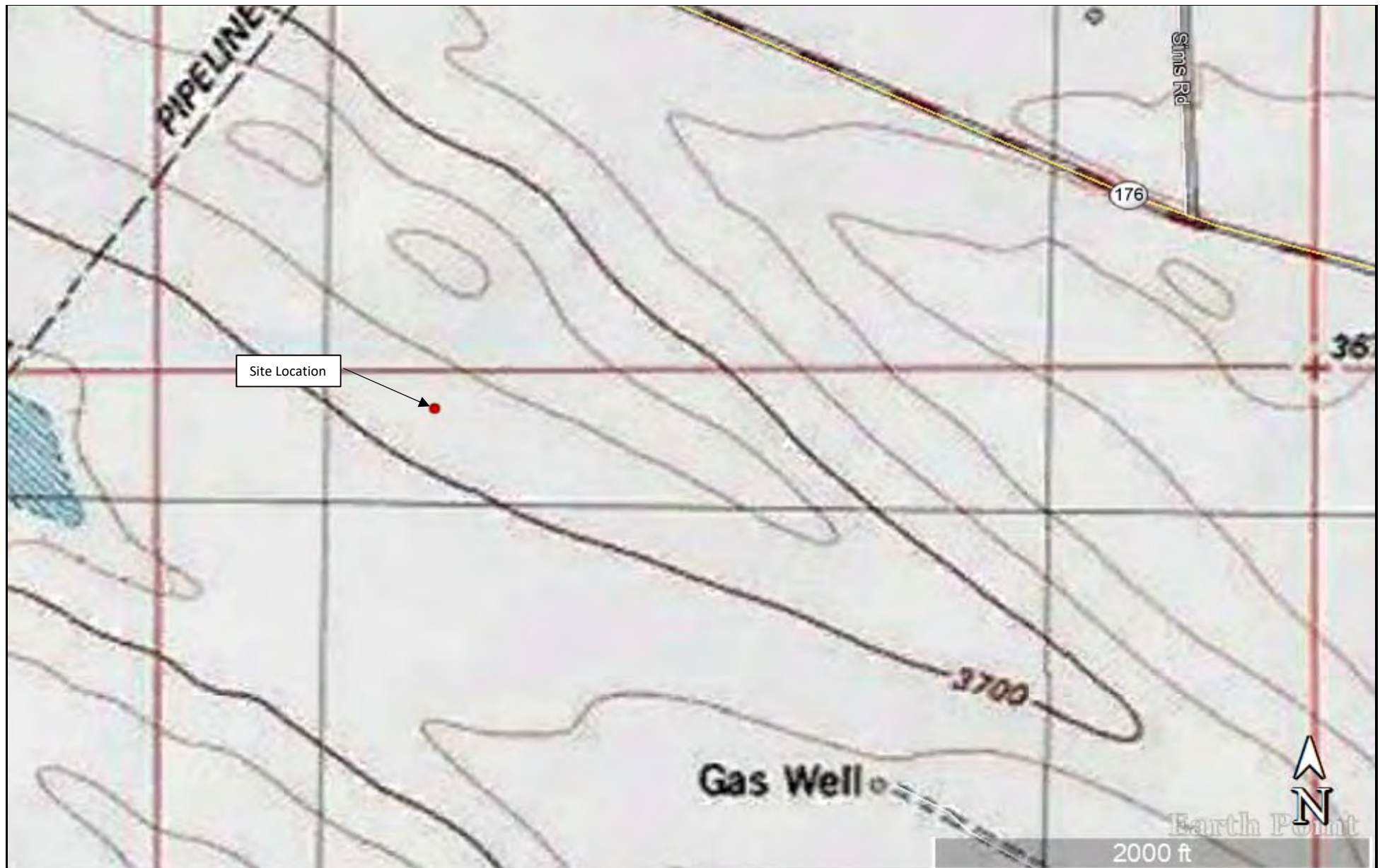
*Hobbs, NM 88240*

*(Electronic Submission)*

## **Figure 1**

### **Topographic Map**





## Legend:

- Site Location

## Figure 1

Topographic Map  
Chisholm Energy Operating, LLC  
Outland 14-23 State Com  
GPS: 32.48571, -103.44495  
Lea County



Drafted:

Checked: jwl

Date:

9/17/19

## **Figure 2**

### **Aerial Proximity Map**





## Legend:

- Site Location
- Fresh Water Well
- Half Mile Radius

**Figure 2**  
Aerial Map  
Chisholm Energy Operating, LLC  
Outland 14-23 State Com  
GPS: 32.48571, -103.44495  
Lea County



Drafted:

Checked: jwl

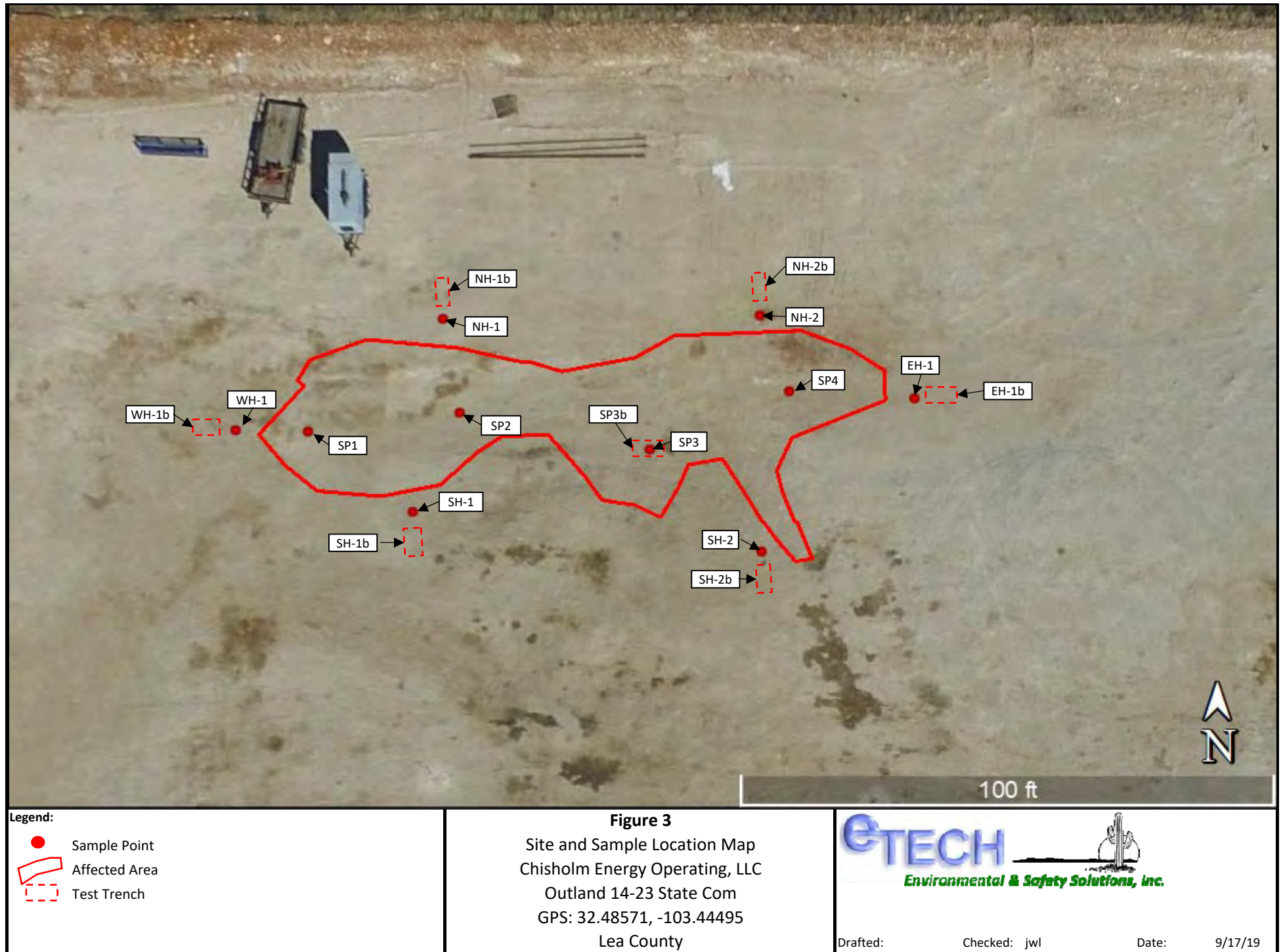
Date:

9/17/19

### **Figure 3**

## **Site and Sample Location Map**





**Table 1**  
**Concentrations of BTEX, TPH, and/or Chloride in Soil**

**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL**  
**Chisholm Energy Operating, LLC**  
**Outland 14-23 State Com**  
**NMOCD Ref. #: 1RP-5260**

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SP1	2/12/19	Surface	In-Situ	<0.050	0.35	<100	19,400	<b>19,400</b>	677	<b>20,077</b>	<b>32,400</b>
SP2	2/12/19	Surface	In-Situ	<0.050	<0.300	<10.0	682	682	441	1,123	2,080
SP3	2/12/19	Surface	In-Situ	<0.050	<0.300	<10.0	1,600	<b>1,600</b>	768	2,368	6,560
SP4	2/12/19	Surface	In-Situ	<0.050	<0.300	<50.0	12,300	<b>12,300</b>	8,840	<b>21,140</b>	8,130
SP1-R	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	201	201	16.6	217.6	3,720
SP3-R	8/2/19	1'	In-Situ	<0.050	8.78	355	17800	<b>18,155</b>	1,080	<b>19,235</b>	3,680
SP4-R	8/2/19	1'	In-Situ	<0.050	0.487	<10.0	45.1	45.1	16.3	61.4	592
EH1	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	4120	<b>4,120</b>	2,120	<b>6,240</b>	2,080
EH1	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	10.9	10.9	160
SH1	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	2,910	<b>2,910</b>	756	<b>3,666</b>	1,250
SH1	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SH2	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	3,660	<b>3,660</b>	1,190	<b>4,850</b>	<b>22,800</b>
SH2	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,640
WH1	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	2,390	<b>2,390</b>	597	<b>2,987</b>	19,600
WH1	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
NH1	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	6,180	<b>6,180</b>	427	<b>6,607</b>	5,520
NH1	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
NH2	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	1,770	<b>1,770</b>	883	<b>2,653</b>	3,640
NH2	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP3b@2'	9/16/19	2'	In-Situ	--	--	250	38,000	<b>38,250</b>	5,400	<b>43,650</b>	--
SP3b@4'	9/16/19	4'	In-Situ	--	--	170	18,000	<b>18,170</b>	<4,600 <sup>D</sup>	<b>18,170</b>	3,200
SP3b@6'	9/16/19	6'	In-Situ	--	--	<4.8	2,500	<b>2,500</b>	<480 <sup>D</sup>	<b>2,500</b>	--
SP3b@8'	9/16/19	8'	In-Situ	--	--	<4.9	430	430	62	492	--
SP3b@10'	9/16/19	10'	In-Situ	--	--	<4.9	320	320	190	510	--
SP3b@11'	9/16/19	11'	In-Situ	--	--	<4.9	<9.3	<14.2	<47	<61.2	190
SH-1b@surf	9/16/19	Surface	In-Situ	--	--	<4.8	11	11	<47	11	--
SH-2b@surf	9/16/19	Surface	In-Situ	--	--	<4.7	33	33	<50	33	500
NH-1b@surf	9/16/19	Surface	In-Situ	--	--	<5.0	28	28	<48	28	--
NH-2b@surf	9/16/19	Surface	In-Situ	--	--	<4.9	24	24	<49	24	--
EH-1b@surf	9/16/19	Surface	In-Situ	--	--	<4.7	12	12	<47	12	--
WH-1b@surf	9/16/19	Surface	In-Situ	--	--	<4.8	18	18	<49	18	490
<b>Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>20,000</b>

**NOTES:**

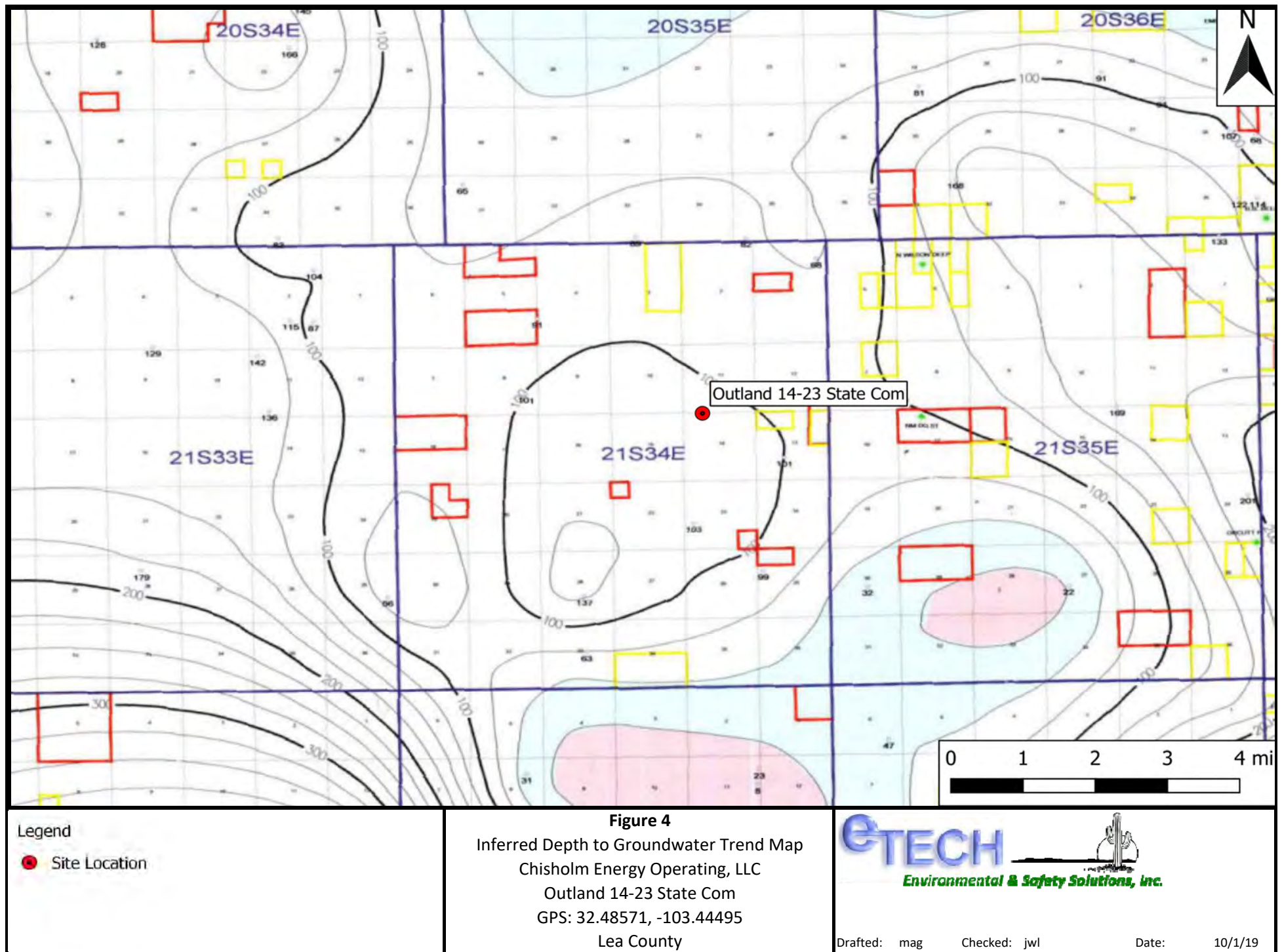
-- = Sample not analyzed for constituent

<sup>D</sup> = Sample diluted due to matrix**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

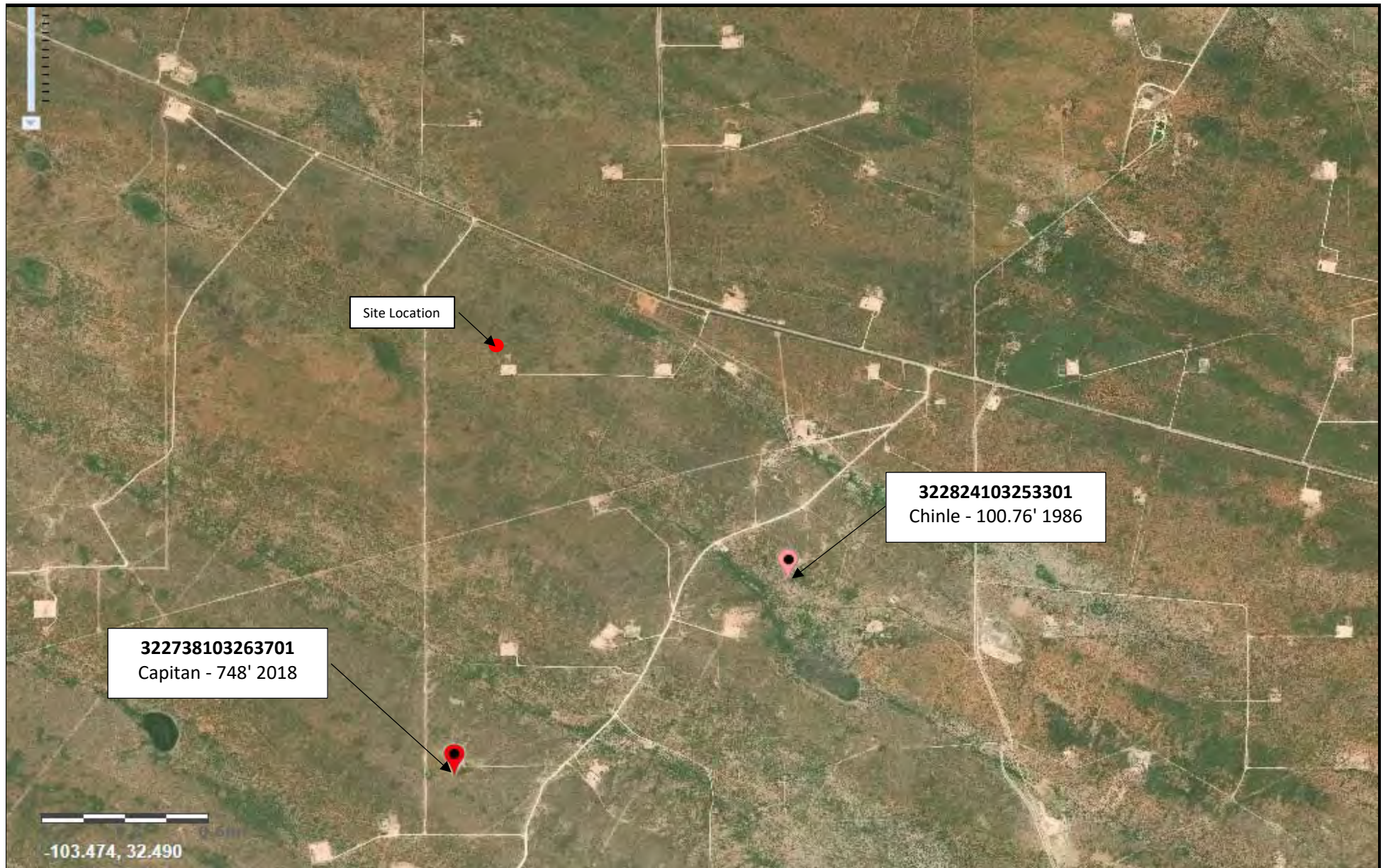


## **Appendix A**

### **Depth to Groundwater Information**







## Legend:

- Site Location
- USGS Water Well

## Figure 5

USGS Well Proximity Map  
Chisholm Energy Operating, LLC  
Outland 14-23 State Com  
GPS: 32.48571, -103.44495  
Lea County



Drafted:

Checked: jwl

Date:

9/17/19



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 00089</a>	O	CP	LE	2	1	13	21S	34E		647840	3594615	1876	235		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 646109

Northing (Y): 3595340

Radius: 2000

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



New Mexico Office of the State Engineer

# Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)						X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng		
	CP 00089	2	1	13	21S	34E	647840	3594615	
Driller License:		Driller Company:							
Driller Name:		BUCK THERIAE							
Drill Start Date:		08/28/1943		Drill Finish Date:			Plug Date:		
Log File Date:		PCW Rev Date:			Source:		Shallow		
Pump Type:		Pipe Discharge Size:			Estimated Yield:				
Casing Size:		7.00		Depth Well:		235 feet		Depth Water:	

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

9/17/19 8:40 AM

POINT OF DIVERSION SUMMARY

## **Appendix B**

### **Field Data and Soil Profile Logs**





## Sample Log

Date: 8/1/19

Project: 10035

Project Number: Outland 14-23 State Com Pad 2H & 3H Latitude: 32.48571 Longitude: -103.44495

[illegible]

**Sample Point = SP #1 @ ## etc**

Floor = FL #1 etc

**Sidewall = SW #1 etc**

Test Trench = TT #1 @ ##

**Refusal = SP #1 @ 4'-R**

**Soil Intended to be Deferred = SP #1 @ 4' In-Situ**

Resamples= SP #1 @ 5b or SW #1b

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comp Areas



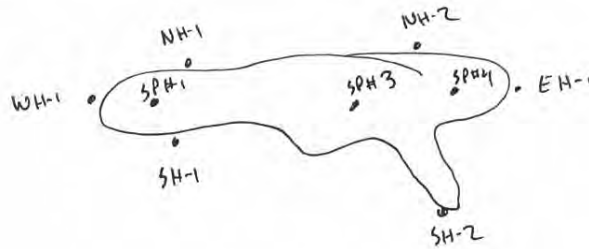


## Initial Release Assessment Form

Project: 10035 Clean Up Level: 600 mg/kg Cl-, 100 mg/kg TPH  
 Project Number: Outland 14-23 State Com Latitude: 32.48571 Longitude: -103.44495

Date: \_\_\_\_\_

Site Diagram



Notes: Revisit Release Site

Conduct initial release assessment

Collect Horizontal &amp; Vertical Samples

Field Screen for Peroxide

~Length:

~Width:

~Area:

~Depth:

Yes

No

3-4 Representative Pictures of the Affected Area including sample locations?

☐☐

Necessary Samples Field Screened and on Ice?

☐☐

Sample and Field Screen Data Entered on Sample Log?

☐☐

Was horizontal and vertical delineation achieved?

☐☐



Date: 09.14.19

Longitude: -103.44495

GPS Sample Points, Center of Comp Areas





## Soil Profile

Date: 9-16-19Project: Outland 14-23 State ComProject Number: 10035Latitude: 32.48571Longitude: -103.44495

Depth (ft. bgs)

Description

1	Imported Fill / Caliche
2	Brown Topsoil
3	
4	Caliche w/ Sand
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
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## **Appendix C**

### **Laboratory Analytical Reports**



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

February 18, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: OUTLAND 14-23 STATE COM PAD

Enclosed are the results of analyses for samples received by the laboratory on 02/12/19 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	02/12/2019	Sampling Date:	02/12/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE COM PAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY		

**Sample ID: SP 1 @ SURFACE (H900545-01)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	98.0	2.00	5.05		
Toluene*	<0.050	0.050	02/16/2019	ND	1.83	91.3	2.00	5.12		
Ethylbenzene*	0.052	0.050	02/16/2019	ND	1.79	89.5	2.00	4.53		
Total Xylenes*	0.302	0.150	02/16/2019	ND	5.36	89.3	6.00	5.05		
Total BTEX	0.354	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32400	16.0	02/16/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	02/15/2019	ND	167	83.5	200	5.10		
DRO >C10-C28*	19400	100	02/15/2019	ND	182	91.0	200	7.29		
EXT DRO >C28-C36	677	100	02/15/2019	ND						

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 1450 % 37.6-147

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	02/12/2019	Sampling Date:	02/12/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE COM PAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY		

**Sample ID: SP 2 @ SURFACE (H900545-02)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	98.0	2.00	5.05		
Toluene*	<0.050	0.050	02/16/2019	ND	1.83	91.3	2.00	5.12		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.79	89.5	2.00	4.53		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.36	89.3	6.00	5.05		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	02/16/2019	ND	400	100	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	02/15/2019	ND	167	83.5	200	5.10	
DRO >C10-C28*	682	10.0	02/15/2019	ND	182	91.0	200	7.29	
EXT DRO >C28-C36	441	10.0	02/15/2019	ND					

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	02/12/2019	Sampling Date:	02/12/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE COM PAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY		

**Sample ID: SP 3 @ SURFACE (H900545-03)**

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	98.0	2.00	5.05	
<b>Toluene*</b>	<b>0.066</b>	0.050	02/16/2019	ND	1.83	91.3	2.00	5.12	
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.79	89.5	2.00	4.53	
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.36	89.3	6.00	5.05	
Total BTEX	<0.300	0.300	02/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6560</b>	16.0	02/16/2019	ND	416	104	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2019	ND	167	83.5	200	5.10	
DRO >C10-C28*	1600	10.0	02/15/2019	ND	182	91.0	200	7.29	
EXT DRO >C28-C36	768	10.0	02/15/2019	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 154 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	02/12/2019	Sampling Date:	02/12/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE COM PAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY		

**Sample ID: SP 4 @ SURFACE (H900545-04)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	98.0	2.00	5.05		
Toluene*	<0.050	0.050	02/16/2019	ND	1.83	91.3	2.00	5.12		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.79	89.5	2.00	4.53		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.36	89.3	6.00	5.05		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8130	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	02/15/2019	ND	167	83.5	200	5.10		
DRO >C10-C28*	12300	50.0	02/15/2019	ND	182	91.0	200	7.29		
EXT DRO >C28-C36	8840	50.0	02/15/2019	ND						

Surrogate: 1-Chlorooctane 84.7 % 41-142

Surrogate: 1-Chlorooctadecane 329 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Caley D. Keene, Lab Director/Quality Manager

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*Released to Imaging: 3/10/2025 3:54:39 PM*



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August 08, 2019

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: OUTLAND 14-23 STATE

Enclosed are the results of analyses for samples received by the laboratory on 08/02/19 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: SP 1 @ 1' - R (H902656-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.47	73.4	2.00	3.59		
Toluene*	<0.050	0.050	08/06/2019	ND	1.84	91.9	2.00	10.4		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.89	94.3	2.00	0.650		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.80	96.6	6.00	1.34		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3720	16.0	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	201	10.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	16.6	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 79.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

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





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: SP 3 @ 1' - R (H902656-02)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.47	73.4	2.00	3.59	GC-NC
Toluene*	1.03	0.050	08/06/2019	ND	1.84	91.9	2.00	10.4	
Ethylbenzene*	1.24	0.050	08/06/2019	ND	1.89	94.3	2.00	0.650	
Total Xylenes*	6.52	0.150	08/06/2019	ND	5.80	96.6	6.00	1.34	
Total BTEX	8.78	0.300	08/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/07/2019	ND	416	104	400	3.77	
TPH 8015M									

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	355	50.0	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	17800	50.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	1080	50.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 288 % 41-142

Surrogate: 1-Chlorooctadecane 605 % 37.6-147

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





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: SP 4 @ 1' - R (H902656-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.47	73.4	2.00	3.59	
Toluene*	0.095	0.050	08/06/2019	ND	1.84	91.9	2.00	10.4	
Ethylbenzene*	0.204	0.050	08/06/2019	ND	1.89	94.3	2.00	0.650	
Total Xylenes*	0.188	0.150	08/06/2019	ND	5.80	96.6	6.00	1.34	
Total BTEX	0.487	0.300	08/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/07/2019	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: EH 1 @ SURFACE (H902656-04)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	08/07/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.42		
DRO >C10-C28*	4120	10.0	08/05/2019	ND	216	108	200	0.400		
EXT DRO >C28-C36	2120	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 227 % 37.6-147

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



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: EH 1 @ 1' (H902656-05)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	10.9	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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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:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: SH 1 @ SURFACE (H902656-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	08/07/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	2910	10.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	756	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 214 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: SH 1 @ 1' (H902656-07)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: SH 2 @ SURFACE (H902656-08)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	08/07/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	3660	10.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	1190	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 74.6 % 41-142

Surrogate: 1-Chlorooctadecane 250 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: SH 2 @ 1' (H902656-09)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.0 % 37.6-147

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**Analytical Results For:**

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: WH 1 @ SURFACE (H902656-10)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	08/07/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	2390	10.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	597	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 77.3 % 41-142

Surrogate: 1-Chlorooctadecane 281 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: WH 1 @ 1' (H902656-11)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.42	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	216	108	200	0.400	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: NH 1 @ SURFACE (H902656-12)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	08/07/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.05	
DRO >C10-C28*	6180	10.0	08/05/2019	ND	205	102	200	3.94	
EXT DRO >C28-C36	427	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 61.7 % 41-142

Surrogate: 1-Chlorooctadecane 428 % 37.6-147

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**Analytical Results For:**

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: NH 1 @ 1' (H902656-13)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.05	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	205	102	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 65.5 % 41-142

Surrogate: 1-Chlorooctadecane 67.3 % 37.6-147

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**Analytical Results For:**

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: NH 2 @ SURFACE (H902656-14)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.05	
DRO >C10-C28*	1770	10.0	08/05/2019	ND	205	102	200	3.94	
EXT DRO >C28-C36	883	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 54.4 % 41-142

Surrogate: 1-Chlorooctadecane 141 % 37.6-147

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:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

**Sample ID: NH 2 @ 1' (H902656-15)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.05	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	205	102	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					

Surrogate: 1-Chlorooctane 53.3 % 41-142

Surrogate: 1-Chlorooctadecane 58.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006  
Revision 1.0



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## ORDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

CLIENT: Chisholm Energy Operating

Client Sample ID: SP3b@2'

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 10:00:00 AM

Lab ID: 1909918-001

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	38000	480		mg/Kg	50	9/19/2019 10:22:58 PM
Motor Oil Range Organics (MRO)	5400	2400		mg/Kg	50	9/19/2019 10:22:58 PM
Surr: DNOP	0	70-130	S	%Rec	50	9/19/2019 10:22:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	250	4.7		mg/Kg	1	9/19/2019 12:42:37 PM
Surr: BFB	1190	77.4-118	S	%Rec	1	9/19/2019 12:42:37 PM

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

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Released to Imaging: 3/10/2025 3:54:39 PM

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CLIENT: Chisholm Energy Operating

Client Sample ID: SP3b@4'

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 10:12:00 AM

Lab ID: 1909918-002

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	18000	930		mg/Kg	100	9/20/2019 3:59:07 PM
Motor Oil Range Organics (MRO)	ND	4600	D	mg/Kg	100	9/20/2019 3:59:07 PM
Surr: DNOP	0	70-130	S	%Rec	100	9/20/2019 3:59:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	170	5.0		mg/Kg	1	9/19/2019 1:28:17 PM
Surr: BFB	1090	77.4-118	S	%Rec	1	9/19/2019 1:28:17 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	3200	150		mg/Kg	50	9/25/2019 9:30:26 AM

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

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Released to Imaging: 3/10/2025 3:54:39 PM

Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating	Client Sample ID: SP3b@6'
Project: Outland 14 32 State Com	Collection Date: 9/16/2019 10:27:00 AM
Lab ID: 1909918-003	Matrix: SOIL
	Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	2500	96		mg/Kg	10	9/20/2019 4:21:32 PM
Motor Oil Range Organics (MRO)	ND	480	D	mg/Kg	10	9/20/2019 4:21:32 PM
Surr: DNOP	0	70-130	S	%Rec	10	9/20/2019 4:21:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2019 2:13:57 PM
Surr: BFB	128	77.4-118	S	%Rec	1	9/19/2019 2:13:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating	Client Sample ID: SP3b@8'
Project: Outland 14 32 State Com	Collection Date: 9/16/2019 10:40:00 AM
Lab ID: 1909918-004	Matrix: SOIL
	Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	430	9.7		mg/Kg	1	9/19/2019 12:37:48 PM
Motor Oil Range Organics (MRO)	62	48		mg/Kg	1	9/19/2019 12:37:48 PM
Surr: DNOP	103	70-130		%Rec	1	9/19/2019 12:37:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2019 2:36:47 PM
Surr: BFB	119	77.4-118	S	%Rec	1	9/19/2019 2:36:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating	Client Sample ID: SP3b@10'
Project: Outland 14 32 State Com	Collection Date: 9/16/2019 11:12:00 AM
Lab ID: 1909918-005	Matrix: SOIL
	Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	320	9.5		mg/Kg	1	9/19/2019 12:59:53 PM
Motor Oil Range Organics (MRO)	190	48		mg/Kg	1	9/19/2019 12:59:53 PM
Surr: DNOP	109	70-130		%Rec	1	9/19/2019 12:59:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2019 2:59:37 PM
Surr: BFB	103	77.4-118		%Rec	1	9/19/2019 2:59:37 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating	Client Sample ID: SP3b@11'
Project: Outland 14 32 State Com	Collection Date: 9/16/2019 11:30:00 AM
Lab ID: 1909918-006	Matrix: SOIL
	Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/19/2019 1:22:07 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2019 1:22:07 PM
Surr: DNOP	94.4	70-130		%Rec	1	9/19/2019 1:22:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2019 4:31:05 PM
Surr: BFB	96.7	77.4-118		%Rec	1	9/19/2019 4:31:05 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	190	60		mg/Kg	20	9/23/2019 2:11:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating	Client Sample ID: SH-1b@surf
Project: Outland 14 32 State Com	Collection Date: 9/16/2019 1:00:00 PM
Lab ID: 1909918-007	Matrix: SOIL
	Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	11	9.5		mg/Kg	1	9/19/2019 2:12:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2019 2:12:31 PM
Surr: DNOP	89.7	70-130		%Rec	1	9/19/2019 2:12:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2019 4:53:59 PM
Surr: BFB	97.3	77.4-118		%Rec	1	9/19/2019 4:53:59 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating	Client Sample ID: SH-2b@surf
Project: Outland 14 32 State Com	Collection Date: 9/16/2019 1:15:00 PM
Lab ID: 1909918-008	Matrix: SOIL
	Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	33	9.9		mg/Kg	1	9/19/2019 2:34:34 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/19/2019 2:34:34 PM
Surr: DNOP	96.4	70-130		%Rec	1	9/19/2019 2:34:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/19/2019 5:16:48 PM
Surr: BFB	97.0	77.4-118		%Rec	1	9/19/2019 5:16:48 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	500	60		mg/Kg	20	9/23/2019 2:23:38 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating      Client Sample ID: NH-1b@surf  
Project: Outland 14 32 State Com      Collection Date: 9/16/2019 1:20:00 PM  
Lab ID: 1909918-009      Matrix: SOIL      Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	28	9.6		mg/Kg	1	9/19/2019 2:56:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/19/2019 2:56:50 PM
Surr: DNOP	92.0	70-130		%Rec	1	9/19/2019 2:56:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/19/2019 5:39:36 PM
Surr: BFB	97.6	77.4-118		%Rec	1	9/19/2019 5:39:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating	Client Sample ID: NH-2b@surf
Project: Outland 14 32 State Com	Collection Date: 9/16/2019 1:23:00 PM
Lab ID: 1909918-010	Matrix: SOIL
	Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	24	9.8		mg/Kg	1	9/19/2019 3:19:02 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/19/2019 3:19:02 PM
Surr: DNOP	96.3	70-130		%Rec	1	9/19/2019 3:19:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2019 6:02:24 PM
Surr: BFB	98.9	77.4-118		%Rec	1	9/19/2019 6:02:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating	Client Sample ID: EH-1b@surf
Project: Outland 14 32 State Com	Collection Date: 9/16/2019 1:45:00 PM
Lab ID: 1909918-011	Matrix: SOIL
	Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	12	9.4		mg/Kg	1	9/19/2019 3:41:15 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2019 3:41:15 PM
Surr: DNOP	86.9	70-130		%Rec	1	9/19/2019 3:41:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/19/2019 6:25:15 PM
Surr: BFB	99.6	77.4-118		%Rec	1	9/19/2019 6:25:15 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report  
Lab Order 1909918  
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating      Client Sample ID: WH-1b@surf  
Project: Outland 14 32 State Com      Collection Date: 9/16/2019 2:00:00 PM  
Lab ID: 1909918-012      Matrix: SOIL      Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	18	9.9		mg/Kg	1	9/19/2019 4:03:25 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/19/2019 4:03:25 PM
Surr: DNOP	88.1	70-130		%Rec	1	9/19/2019 4:03:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2019 6:48:01 PM
Surr: BFB	100	77.4-118		%Rec	1	9/19/2019 6:48:01 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	490	60		mg/Kg	20	9/23/2019 2:36:02 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



Form C-141

State of New Mexico

Page 5

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**Received by: Robert Hamlet Date: 1/15/2020☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature:  \_\_\_\_\_ Date: 1/15/2020

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 403040

**QUESTIONS**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nOY1831140454
Incident Name	NOY1831140454 CHISHOLM 14-23 STATE FRAC TANK @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

**Location of Release Source***Please answer all the questions in this group.*

Site Name	CHISHOLM 14-23 STATE FRAC TANK
Date Release Discovered	10/21/2018
Surface Owner	State

**Incident Details***Please answer all the questions in this group.*

Incident Type	Produced Water 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	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error   Tank (Any)   Produced Water   Released: 30 BBL   Recovered: 10 BBL   Lost: 20 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	Not answered.

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QUESTIONS, Page 2

Action 403040

**QUESTIONS (continued)**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	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	Not answered.

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: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 11/13/2024
--	--

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QUESTIONS, Page 3

Action 403040

**QUESTIONS (continued)**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

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.

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 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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	Greater than 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	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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.

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

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	20400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1260
GRO+DRO (EPA SW-846 Method 8015M)	1260
BTEX (EPA SW-846 Method 8021B or 8260B)	2.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	12/01/2023
On what date will (or did) the final sampling or liner inspection occur	10/16/2024
On what date will (or was) the remediation complete(d)	10/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	25700
What is the estimated volume (in cubic yards) that will be reclaimed	3398
What is the estimated surface area (in square feet) that will be remediated	25700
What is the estimated volume (in cubic yards) that will be remediated	6280

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.

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.

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QUESTIONS, Page 4

Action 403040

**QUESTIONS (continued)**

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	Action Number: 403040
	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	LEA LAND LANDFILL [fEEM0112342028]
<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: Matthew Taylor Title: Environmental Coordinator Email: <a href="mailto:matthew.taylor@permianres.com">matthew.taylor@permianres.com</a> Date: 11/13/2024
<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 403040

QUESTIONS (continued)

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	Action Number:  403040
	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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Action 403040

**QUESTIONS (continued)**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	402973
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2024
What was the (estimated) number of samples that were to be gathered	265
What was the sampling surface area in square feet	25700

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

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	25700
What was the total volume (cubic yards) remediated	6280
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	25700
What was the total volume (in cubic yards) reclaimed	3398
Summarize any additional remediation activities not included by answers (above)	Remediation at site is complete. The release occurred while the facility was owned by a previous operator (Chisholm). The presence and transfer of the open regulatory file was not discovered until a more recent reportable release was remediated; the two reportable releases were remediated concurrently.

*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 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: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 11/13/2024
--	--



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QUESTIONS, Page 7  
  
Action 403040

QUESTIONS (continued)

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	Action Number:  403040
	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 403040

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	3/10/2025