



October 21, 2024

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request  
Rojo 38 41 Tank Battery & Rojo 38-41 Well Pad  
Incident Numbers nAPP2123555001 & nAPP2400854443  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, delineation, excavation, and soil sampling activities performed at the Rojo 38 41 Tank Battery and Rojo 38-41 Well Pad (collectively referred to as the Site). The purpose of the Site activities was to assess the presence or absence of impacts to soil resulting from two releases of crude oil and produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Report*, describing Site assessment, delineation, and excavation activities that have occurred and requesting closure for Incident Numbers nAPP2123555001 and nAPP2400854443.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit E, Section 34, Township 25 South, Range 33 East, in Lea County, New Mexico (32.08719°, -103.56502°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

Incident Number nAPP2123555001

On August 23, 2021, failure of a dump valve on a separator vessel caused the release of approximately 51 barrels (bbls) of produced water and 36 bbls of crude oil into the earthen containment surrounding the liquids tank and onto the surface of the pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 35 bbls of released produced water and 25 bbls of crude oil were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release on August 23, 2021, but stated the release was 70 bbls of crude oil with no fluids recovered. The volumes were later corrected on a Release Notification Form C-141 (Form C-141) on September 14, 2021. The release was assigned Incident Number nAPP2123555001.

Incident Number nAPP2400854443

On January 7, 2024, regulators to the supply gas for the separators froze, sending fluid to the compressor tank and causing it to overflow, resulting in the release of approximately 87.801 bbls of produced water into the earthen containment surrounding the liquids tank and onto the surface of the pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 80 bbls

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of produced water were recovered. BTA reported the release to the NMOCD on a Form C-141 on January 19, 2024. The release was assigned Incident Number nAPP2400854443.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04732, located approximately 0.1 miles northwest of the Site. The groundwater well was drilled during April 2023 to a total depth of 106 feet bgs to assess depth to water beneath the Site, which determined groundwater was greater than 100 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 2,141 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

## INCIDENT NUMBER nAPP2400854443 SITE ASSESSMENT ACTIVITIES

On May 11, 2023, Ensolum personnel visited the Site to evaluate the release extent of Incident Number nAPP2123555001 based on information provided on the Form C-141 and visual observations. Ten assessment soil samples (SS01 through SS10) were collected within and around the release area, at a depth of approximately 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental

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Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for assessment soil sample SS01 through SS10 indicated all COC concentrations were compliant with the Site Closure Criteria.

On May 31, 2023, Ensolum personnel returned to the Site to complete vertical delineation of the assessment soil samples to confirm the absence of impacted soil. Six boreholes were advanced via hand auger to depths of 4 feet bgs within the release at assessment soil samples SS05 through SS10. The delineation soil samples were field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The assessment soil samples were collected, handled, and analyzed following the same procedures previously described. The assessment soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for assessment soil samples SS05 through SS10 at 4 feet bgs indicated all COC concentrations were compliant with the Site Closure Criteria.

#### **INCIDENT NUMBER nAPP2123555001 SITE ASSESSMENT ACTIVITIES**

On January 11, 2024, and January 29, 2024, Ensolum personnel visited the Site to evaluate the release extent of Incident Number nAPP2400854443 based on information provided on the Form C-141 and visual observations. Twenty-nine assessment soil samples (SS11 through SS39) were collected within and around the release area at a depth of approximately 0.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures previously described. The assessment soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

Laboratory analytical results for assessment soil samples SS11 through SS32 and SS34 through SS36 indicated all COCs were in compliance with Closure Criteria. Assessment soil sample SS34 indicated chloride exceeded the strictest Table I Closure Criteria. Assessment soil samples SS33 and SS37 through SS39 indicated Benzene, BTEX, TPH-GRO/TPH-DRO and TPH exceeded Closure Criteria. Additional delineation and excavation were deemed necessary based on analytical laboratory results.

#### **DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS**

On February 20, 2024, through February 22, 2024, Ensolum personnel returned to the Site to complete vertical delineation activities. Seventeen potholes were advanced via backhoe to terminal depths ranging from 3 feet to 4 feet bgs. The delineation soil samples were field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil samples were collected, handled, and analyzed following the same procedures previously described. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for potholes PH01 through PH06, PH08 through PH11, and PH13 indicated all COC concentrations were compliant with Site Closure Criteria. Laboratory analytical results for potholes PH07, PH12, and PH14 through PH17, collected at depths ranging from 0.5 feet to 4 feet bgs, indicated TPH concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results, excavation activities were warranted.

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## EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between April 26, 2024, and August 27, 2024, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for assessment and delineation activities. Excavation activities were performed utilizing a hydrovac and back-hoe. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 3 feet to 6.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the excavation extents. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS18 were collected from the floor of the excavation at depths ranging from 3 feet to 6.5 feet bgs. Confirmation soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 6.5 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for the excavation soil samples FS06, FS07, and FS10 through FS18 indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for excavation soil samples FS01 through FS05, FS08, FS09, and SW01 through SW04 indicated TPH concentrations exceeded the Closure Criteria. Additional soil was removed in the vicinity and subsequent soil samples FS01A, FS02B, FS03B, FS04B, FS05A, FS08A, FS09A, SW01A, SW05 through SW09, and SW11 were collected from the floor and sidewalls of the excavation at depths ranging from the ground surface to 6.5 feet bgs. All subsequent soil samples indicated they met Site Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

The excavation area measured approximately 3,558 square feet. A total of approximately 550 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the OWL Landfill Services, LLC in Jal, New Mexico.

## CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the August 2021 and January 2024, release of produced water and crude oil. Excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Numbers nAPP2123555001 and nAPP2400854443.

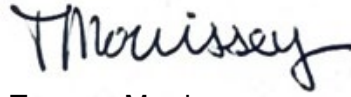
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If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or [tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Project Engineer



Tacoma Morrissey  
Associate Principal

cc: Ray Ramos, BTA  
Bureau of Land Management

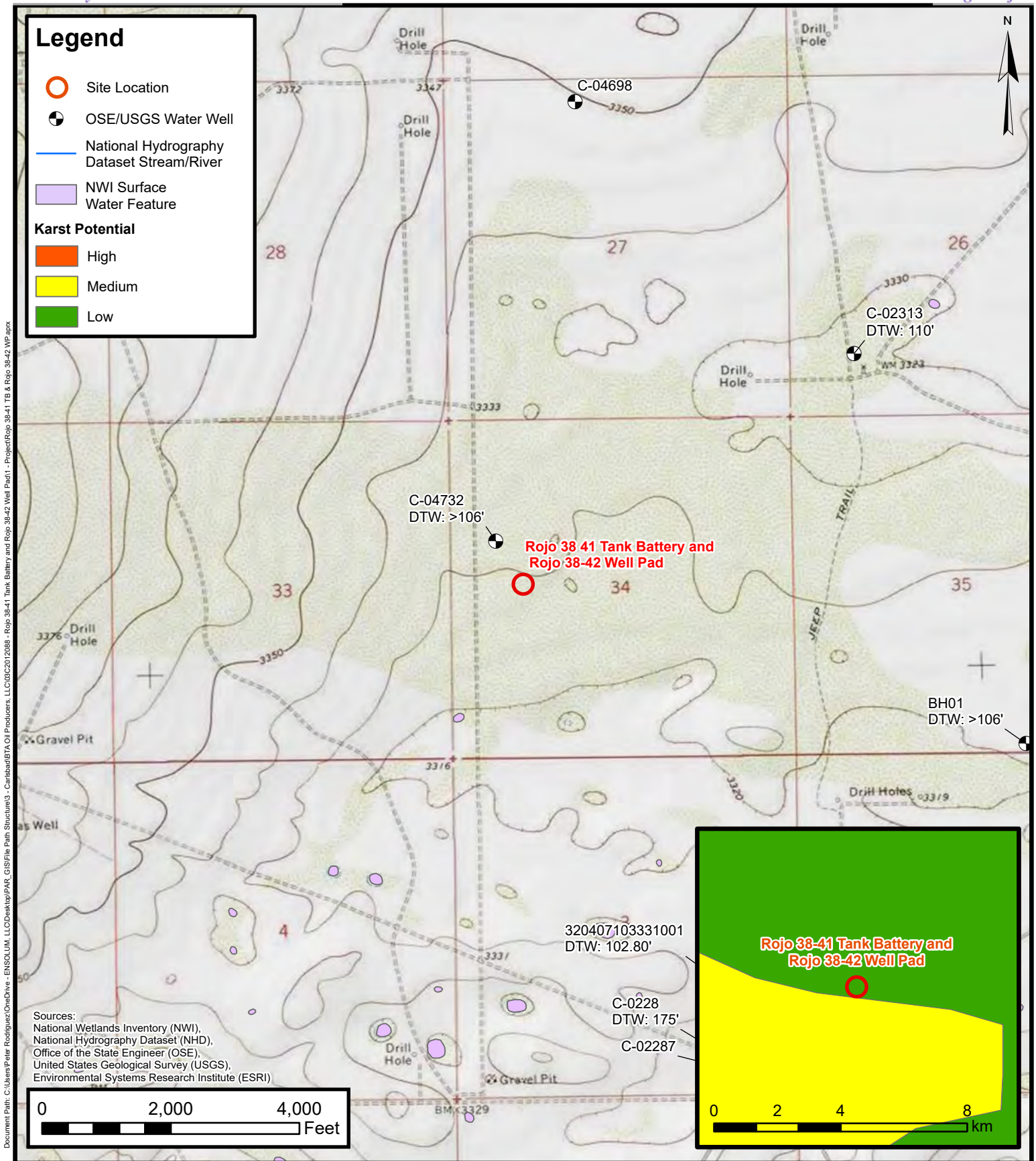
Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic/Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES





## Site Receptor Map

BTA Oil Producers, LLC  
Rojo 38-41 Tank Battery and Rojo 38-41 Well Pad  
Incident Number: nAPP2123555001 / nAPP2400854443  
Unit E, Sec 34, T25S, R33E  
Lea County, New Mexico

FIGURE

1

**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants



**Legend**

- Assessment Soil Sample in Compliance with Closure Criteria
- Assessment Soil Sample with Concentrations Previous Exceeding Closure Criteria
- Assessment Soil Sample with Concentrations Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Subsurface Utility Line
- Surface Utility Line
- Production Equipment
- Release Extent (nAPP2123555001)
- Release Extent (nAPP2400854443)
- Earthen Berm

Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\BTA Oil Producers, LLC\03C2012032 - Rojo 38 41 Tank Battery\1 - Map File\Main

Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.

0 10 20 40 60 80  
 Feet

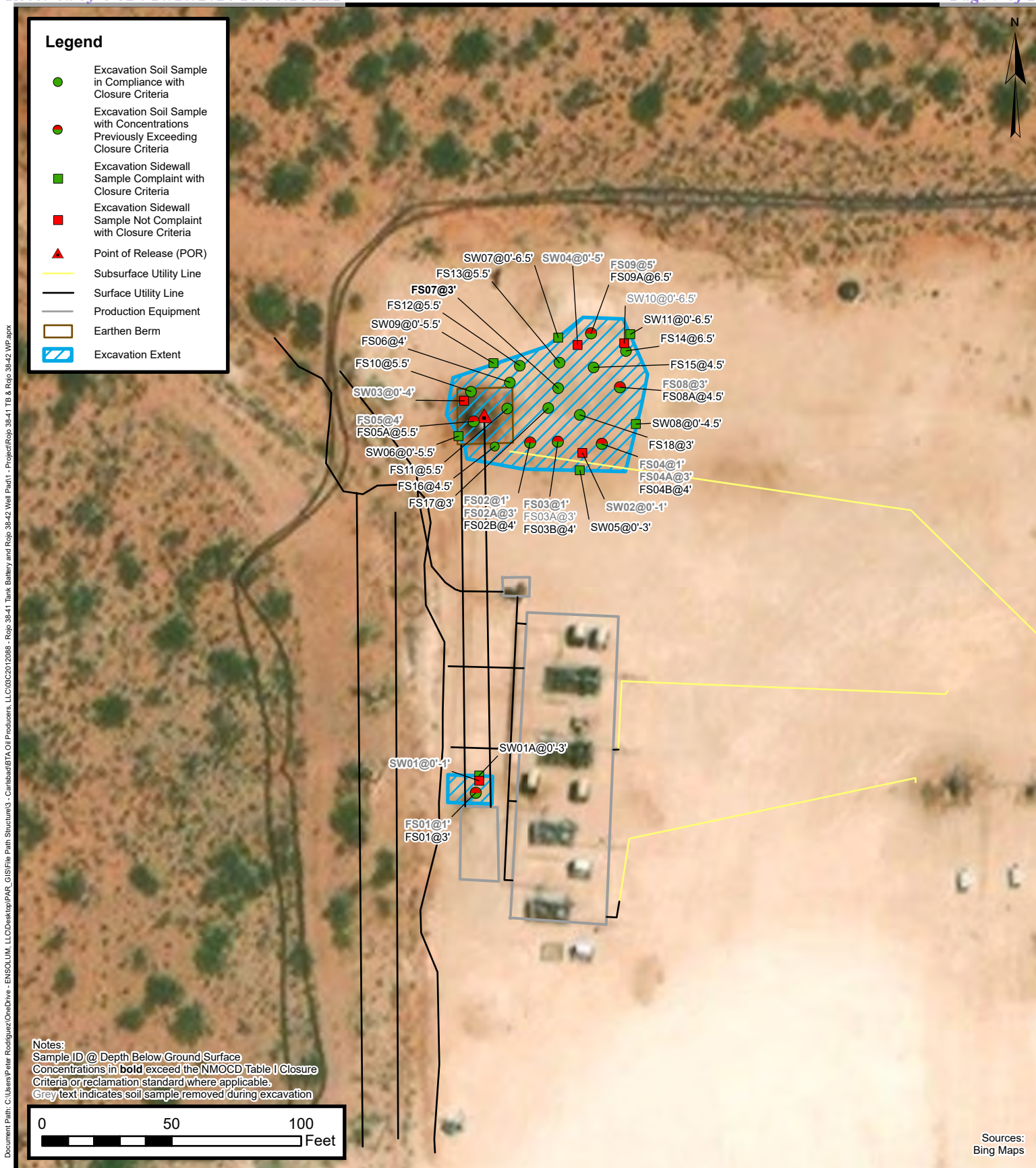
Sources: Environmental Systems Research Institute (ESRI)

## Assessment Soil Sample Locations

BTA Oil Producers, LLC  
 Rojo 38 41 Tank Battery and Rojo 38-41 Well Pad  
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 Unit E, Sec 34, T25S, R33E  
 Lea County, New Mexico

**FIGURE**
**2**



## Excavation Soil Sample Locations

BTA Oil Producers, LLC  
Rojo 38 41 Tank Battery and Rojo 38-41 Well Pad  
Incident Number: nAPP2123555001 / nAPP2400854443  
Unit E, Sec 34, T25S, R33E  
Lea County, New Mexico

**FIGURE**  
**3**



TABLES

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Rojo 38 41 Tank Battery and Rojo 38-41 Well Pad**  
**BTA Oil Producers, LLC**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Assessment Soil Samples										
SS01	05/11/2023	0.5	<0.050	<0.300	<10.0	56.9	<10.0	56.9	56.9	256
SS02	05/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	05/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS04	05/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS05	05/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS05A	05/31/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS06	05/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS06A	05/31/2023	4	<0.050	5.75	321	255	337	576	913	64.0
SS07	05/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS07A	05/31/2023	4	<0.050	0.400	<10.0	49.9	31.9	49.9	81.8	192
SS08	05/11/2023	0.5	<0.050	<0.300	<10.0	219	152	219	371	528
SS08A	05/31/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS09	05/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	14.8	<10.0	14.8	768
SS09A	05/31/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS10	05/11/2023	0.5	<0.050	<0.300	<10.0	15.7	<10.0	15.7	15.7	144
SS10A	05/31/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS11	01/29/2024	0.5	<0.050	<0.300	<10.0	31.6	<10.0	31.6	31.6	80.0
SS12	01/29/2024	0.5	<0.050	<0.300	<10.0	13.2	<10.0	13.2	13.2	64.0
SS13	01/29/2024	0.5	<0.050	<0.300	<10.0	21.3	<10.0	21.3	21.3	80.0
SS14	01/29/2024	0.5	<0.050	<0.300	<10.0	11.3	<10.0	11.3	11.3	80.0
SS15	01/29/2024	0.5	<0.050	<0.300	<10.0	26.9	<10.0	26.9	26.9	80.0
SS16	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS17	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS18	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS19	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS20	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS21	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS22	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS23	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS24	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS25	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS26	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS27	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS28	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Rojo 38 41 Tank Battery and Rojo 38-41 Well Pad  
 BTA Oil Producers, LLC  
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SS29	01/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS30	01/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SS31	01/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
SS32	01/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS33	01/11/2024	0.5	15.3	384	9,740	16,300	2,580	26,040	28,620	368
SS34	01/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,300
SS35	01/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS36	01/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS37	01/11/2024	0.5	5.69	196	4,450	6,790	1,210	11,240	12,450	1,440
SS38	01/11/2024	0.5	21.4	443	13,200	17,000	4,240	30,200	34,440	608
SS39	01/11/2024	0.5	29.1	522	9,670	10,900	1,840	20,570	22,410	880
Delineation Soil Samples										
PH01	02/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH01	02/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH02	02/20/2024	0.5	<0.050	<0.300	<10.0	41.1	<10.0	41.1	41.1	5,120
PH02	02/20/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
PH02	02/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
PH03	02/20/2024	0.5	<0.050	<0.300	<10.0	137	446	137	583	336
PH03	02/20/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
PH03	02/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH04	02/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	816
PH04	02/20/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH04	02/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH05	02/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
PH05	02/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH06	02/20/2024	0.5	<0.050	<0.300	<10.0	601	163	601	764	32.0
PH06	02/20/2024	2	<0.050	<0.300	<10.0	248	60.0	248	308	224
PH06	02/20/2024	4	<0.050	<0.300	<10.0	18.0	<10.0	18.0	18.0	576
PH07	02/20/2024	0.5	0.125	0.362	137	22,600	5,710	22,737	28,447	1,120
PH07	02/20/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH07	02/20/2024	4	<0.050	<0.300	<10.0	47.9	<10.0	47.9	47.9	128
PH08	02/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH08	02/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH09	02/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
PH09	02/21/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH09	02/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Rojo 38 41 Tank Battery and Rojo 38-41 Well Pad**  
**BTA Oil Producers, LLC**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
PH10	02/21/2024	0.5	<0.050	<0.300	<10.0	22.7	<10.0	22.7	22.7	848
PH10	02/21/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH10	02/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH11	02/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
PH11	02/21/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH11	02/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH12	02/22/2024	0.5	1.12	71.3	1,780	6,300	439	8,080	8,519	2,960
PH12	02/22/2024	2	<0.050	<0.300	<10.0	26.1	34.4	26.1	60.5	352
PH12	02/22/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
PH13	02/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH13	02/22/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH13	02/22/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
PH14	02/22/2024	0.5	4.64	182	13,700	12,500	1,830	26,200	28,030	1,600
PH14	02/22/2024	2	<0.200	9.23	396	2,170	<10.0	2,566	2,566	496
PH14	02/22/2024	4	<0.050	0.709	10.8	327	<10.0	338	338	224
PH15	02/22/2024	0.5	0.632	72.0	1,810	3,300	291	5,110	5,401	208
PH15	02/22/2024	2	0.435	8.26	328	3,470	438	3,798	4,236	32.0
PH15	02/22/2024	4	<0.050	<0.300	<10.0	42.3	27.2	42.3	69.5	48.0
PH16	02/22/2024	0.5	0.263	15.6	795	1,700	169	2,495	2,664	64.0
PH16	02/22/2024	3	<0.050	<0.300	<10.0	34.7	<10.0	34.7	34.7	32.0
PH16	02/22/2024	4	<0.050	1.26	86.6	673	95.0	760	855	48.0
PH17	02/22/2024	0.5	0.377	40.7	939	7,660	1,090	8,599	9,689	128
PH17	02/22/2024	4	<0.050	1.08	187	3,170	430	3,357	3,787	272
Confirmation Soil Samples										
FS01	04/26/2024	1	1.53	209	6,490	3,950	3,770	10,440	14,210	176
FS01A	08/23/2024	3	<0.050	<0.300	<10.0	67	<10.0	67	67	64
FS02	04/26/2024	1	<0.050	3.24	134	1,970	267	2,104	2,371	608
FS02A	08/21/2024	3	<0.050	<0.300	<10.0	507	94.6	507	602	448
FS02B	08/27/2024	4	<0.050	<0.300	<10.0	18	<10.0	18	18	48
FS03	04/26/2024	1	<0.050	5.00	152	2,240	360	2,392	2,752	720
FS03A	08/21/2024	3	<0.050	<0.300	<10.0	15.4	<10.0	15.4	15.4	832
FS03B	08/27/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS04	04/26/2024	1	<0.50	3.92	185	2,960	416	3,145	3,561	592
FS04A	08/21/2024	3	<0.50	<0.300	<10.0	167	18.2	167	185	432
FS04B	08/27/2024	4	<0.050	<0.300	<10.0	35	<10.0	35	35	224
FS05	04/26/2024	4	<0.050	0.492	48.4	1,410	142	1,458	1,600	160
FS05A	08/05/2024	5.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Rojo 38 41 Tank Battery and Rojo 38-41 Well Pad**  
**BTA Oil Producers, LLC**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS06	04/26/2024	4	<0.050	0.428	17.1	271	206	288	494	144
FS07	04/26/2024	3	<0.050	1.36	109	2,480	449	<b>2,589</b>	<b>3,038</b>	112
FS08	04/26/2024	3	<0.050	<0.300	53.3	1,020	171	1,073	1,244	400
FS08A	08/21/2024	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS09	04/26/2024	5	<0.050	0.371	218	2,420	356	2,638	2,994	160
FS09A	08/06/2024	6.5	<0.051	<0.300	<10.0	149	23.4	149	162	32.0
FS10	08/06/2024	5.5	<0.050	<0.300	67.1	373	131	440	571	144
FS11	08/06/2024	5.5	<0.050	<0.300	<10.0	70.5	15.2	70.5	85.7	<16.0
FS12	08/06/2024	5.5	<0.050	<0.300	<10.0	662	152	662	814	112
FS13	08/06/2024	5.5	<0.050	<0.300	<10.0	18.4	<10.0	18.4	18.4	32.0
FS14	08/07/2024	6.5	<0.050	<0.300	<10.0	317	46.5	317	364	112
FS15	08/07/2024	4.5	<0.050	<0.300	<10.0	395	62.5	395	458	272
FS16	08/07/2024	4.5	<0.050	<0.300	<10.0	73.1	12.3	73.1	85.4	16.0
FS17	08/22/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS18	08/22/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW01	04/26/2024	0 - 1	2.71	217	6,520	8,520	4,070	15,040	19,110	736
SW01A	08/23/2024	0 - 3	<0.050	<0.300	<10.0	21.4	<10.0	21.4	21.4	32.0
SW02	04/26/2024	0 - 1	<0.050	1.23	35.9	1,240	175	1,276	1,451	272
SW03	04/26/2024	0 - 4	<0.050	2.62	124	4,260	624	4,384	5,008	592
SW04	04/26/2024	0 - 5	<0.050	14.3	548	3,980	602	4,528	5,130	64.0
SW05	08/21/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW06	08/21/2024	0 - 5.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW07	08/21/2024	0 - 6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW08	08/21/2024	0 - 4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
SW09	08/21/2024	0 - 5.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW10	08/21/2024	0 - 6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
SW11	08/27/2024	0 - 6.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon


Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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								Sample Name: C-04732		Date: 04/19/2023					
								Site Name: Rojo 18 ELL							
								Incident Number: nAPP2222753156							
								Job Number: 03C2012007							
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: J.falcomata		Method: Air Rotary					
Coordinates: 32.089035, -103.566486								Hole Diameter: 5"		Total Depth: 106'					
Comments: Soil boring was advanced to a total depth of 106' bgs. No water was observed within the soil boring after at least 72 hours. On 04/24/2023 the soil boring was plugged and abandoned using hydrated bentonite chips.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
Dry	-	-	N	-	-	10	SP-SM	Note: Driller injected well with a water and soap mixture @ 55' to help stabilize well and prevent cave in. Due to collapse, well cased @ 102' with 2" polypipe casing. (10') SAND: fine grained - medium grained, trace amounts small gravel, poorly graded, tan, no odor, non plastic non cohesive (20') SAND: fine grained, silty, poorly graded, medium brown, no odor, non plastic, non cohesive. (30') SAND: fine - medium grained, silty, trace amount small gravel, poorly graded, light brown, no odor, non plastic, non cohesive (40') SAND: fine grained, silty, poorly graded, light to orangish brown, no odor, non plastic, non cohesive (50') SAND: fine grained, silty, poorly graded, light to orangish brown, no odor, non plastic, non cohesive (60') SAND: fine grained, silty, poorly graded, orangish brown, wet from injection, no odor, non plastic, non cohesive (70') SAND: fine grained, silty, poorly graded, medium brown, wet from injection, no odor, non plastic, non cohesive (80') SAND: fine grained, silty, poorly graded, medium brown, wet from injection, no odor, non plastic, non cohesive (90') SAND: fine grained, silty, poorly graded, orangish brown, wet from injection, no odor, non plastic, non cohesive (100') SAND: fine grained, silty, poorly graded, tan, wet from injection, no odor, non plastic, non cohesive cohesive AA							
Dry	-	-	N	-	-	20	SP-SM								
Dry	-	-	N	-	-	30	SP-SM								
Dry	-	-	N	-	-	40	SP-SM								
Dry	-	-	N	-	-	50	SP-SM								
Wet	-	-	N	-	-	60	SP-SM								
Wet	-	-	N	-	-	70	SP-SM								
Wet	-	-	N	-	-	80	SP-SM								
Wet	-	-	N	-	-	90	SP-SM								
Wet	-	-	N	-	-	100	SP-SM								
Wet	-	-	N	-	-	106	SP-SM								
Total Depth @ 106 feet bgs															





# 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>
C	02285 POD1	1	4	4	03	26S	33E	636613	3548855
<hr/>									
<b>Driller License:</b>		<b>Driller Company:</b>							
<b>Driller Name:</b>									
<b>Drill Start Date:</b>		<b>Drill Finish Date:</b>		12/31/1982		<b>Plug Date:</b>			
<b>Log File Date:</b>		<b>PCW Rcv Date:</b>				<b>Source:</b>		Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>		18 GPM	
<b>Casing Size:</b> 8.00		<b>Depth Well:</b>		220 feet		<b>Depth Water:</b>		220 feet	

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.

5/4/23 8:55 AM

POINT OF DIVERSION SUMMARY



## APPENDIX B

### Photographic Log

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**Photographic Log**

BTA Oil Producers

Rojo 38-41 Tank Battery & Well Pad  
nAPP2123555001 & nAPP2400854443



Photograph: 1 Date: 5/11/2023  
Description: Soil staining - Incident Number nAPP2400854443  
View: Southeast



Photograph: 2 Date: 5/31/2023  
Description: Delineation activities  
View: East



Photograph: 3 Date: 1/11/2024  
Description: Soil staining - Incident Number nAPP2123555001  
View: East



Photograph: 4 Date: 2/21/2024  
Description: Delineation activities  
View: Northeast



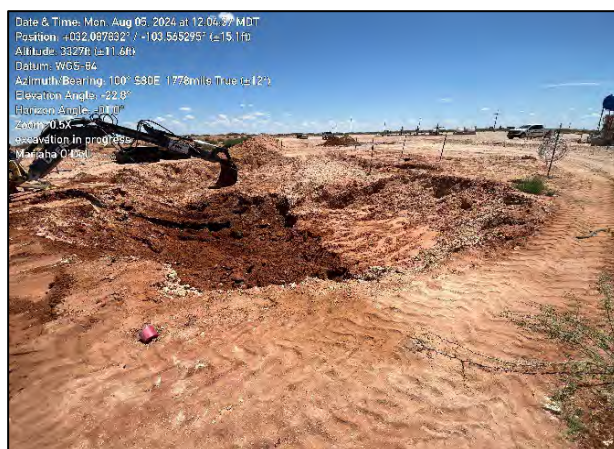
**Photographic Log**

BTA Oil Producers

Rojo 38-41 Tank Battery & Well Pad  
nAPP2123555001 & nAPP2400854443



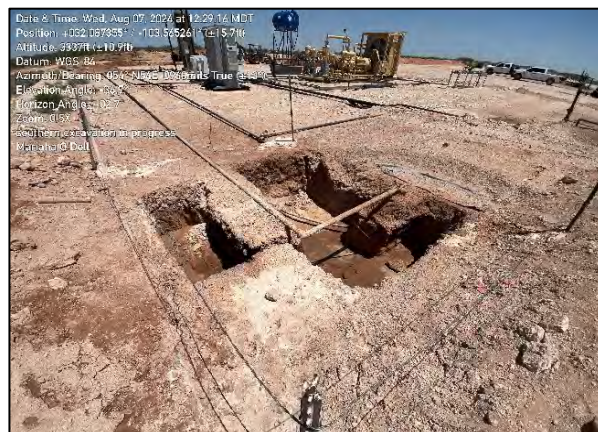
Photograph: 5 Date: 4/26/2024  
Description: Excavation activities  
View: Southeast



Photograph: 6 Date: 8/5/2024  
Description: Excavation activities  
View: Southeast



Photograph: 7 Date: 8/6/2024  
Description: Excavation activities  
View: Northeast



Photograph: 8 Date: 8/7/2024  
Description: Excavation activities  
View: Northeast





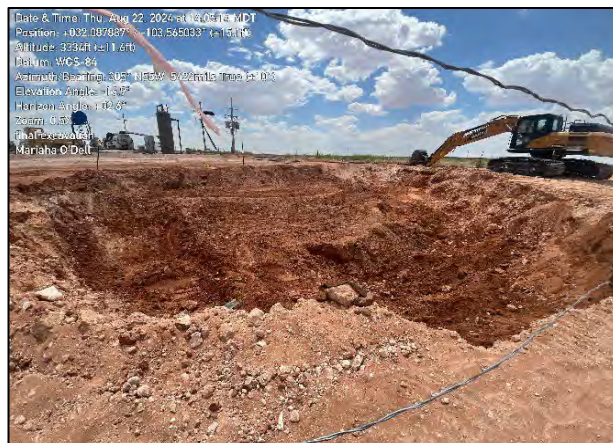
# Photographic Log

BTA Oil Producers

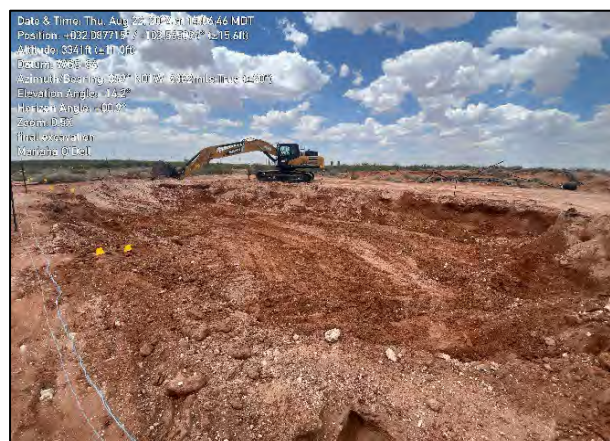
Rojo 38-41 Tank Battery & Well Pad  
nAPP2123555001 & nAPP2400854443



Photograph: 9 Date: 8/21/2024  
Description: Excavation activities  
View: Southeast



Photograph: 10 Date: 8/22/2024  
Description: Excavation activities  
View: Southwest



Photograph: 11 Date: 8/22/2024  
Description: Final excavation extent  
View: Northwest




Photograph: 12 Date: 8/27/2024  
Description: Final excavation extent  
View: North




## APPENDIX C


### Lithologic Soil Sampling Logs


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								Sample Name: SS05		Date: 05/31/23	
								Site Name: Rojo 38 41 Tank Battery			
								Incident Number: nAPP2123555001			
								Job Number: 03C2012032			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: DN		Method: Backhoe	
Coordinates: 32.08719, -103.56502								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride tests performed with 1:4 dilution factor of soil to distilled water and 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE (fill)	0'-0.5' CALICHE, light brown, poorly sorted, sub-rounded grains, no odor, dry, no staining, fill.			
D	<173	1.4	N	SS05	0.5	0.5	SP	0.5'-4' SAND, brown, poorly sorted, fine grains, dry, no odor, not stained.			
D	<173	0.3	N	SS05A		1					
D	<173	0.5	N	SS05B		2					
D	<173	1.4	N	SS05C		3					
D	<173	0.6	N	SS05D	4	4					
							TD	Total Depth @ 4' bgs			


								Sample Name: SS06		Date: 05/31/23	
								Site Name: Rojo 38 41 Tank Battery			
								Incident Number: nAPP2123555001			
								Job Number: 03C2012032			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: DN		Method: Backhoe	
Coordinates: 32.08719, -103.56502								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride tests performed with 1:4 dilution factor of soil to distilled water and 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	420	0.4	Y	SS06	0.5	0.5	SP	0'-4' SAND, brown, poorly sorted, fine grains, dry with sub-rounded well-graded large gravel grains. Odor and staining are present.			
D	<173	3.4	Y	SS06A		1					
D	<173	11.9	Y	SS06B		2					
D	<173	32.7	Y	SS06C		3					
D	<173	411	Y	SS06D	4	4					
							TD	Total Depth @ 4' bgs			




								Sample Name: SS07		Date: 05/31/23	
								Site Name: Rojo 38 41 Tank Battery			
								Incident Number: nAPP2123555001			
								Job Number: 03C2012032			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: DN		Method: Backhoe	
Coordinates: 32.08719, -103.56502								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride tests performed with 1:4 dilution factor of soil to distilled water and 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE (fill)	0'-0.5' CALICHE, light brown, poorly sorted, sub-rounded grains, odor, dry, no staining, fill.			
D	420	0.3	N	SS07	0.5	0.5	SP	0.5'-1' SAND, brown, poorly sorted, fine grains, dry, odor, not stained, with some caliche.			
D	218.4	42.8	N	SS07A		1	SP	1'-4' SAND, brown, poorly sorted, fine grains, dry, no odor, not stained.			
D	218.4	11.5	N	SS07B		2					
D	218.4	5.4	N	SS07C		3					
D	218.4	34.2	N	SS07D	4	4					
							TD	Total Depth @ 4' bgs			


								Sample Name: SS08		Date: 05/31/23	
								Site Name: Rojo 38 41 Tank Battery			
								Incident Number: nAPP2123555001			
								Job Number: 03C2012032			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: DN		Method: Backhoe	
Coordinates: 32.08719, -103.56502								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride tests performed with 1:4 dilution factor of soil to distilled water and 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE (fill)	0'-0.5' CALICHE, light brown, poorly sorted, sub-rounded grains, no odor, dry, stained, fill.			
D	638.4	0.2	Y	SS08	0.5	0.5	SP	0.5'-4' SAND, brown, poorly sorted, fine grains, dry, no odor, not stained.			
D	638.4	1.6	N	SS08A		1					
D	330.4	6.2	N	SS08B		2					
D	173.0	2.7	N	SS08C		3					
D	<173	9.7	N	SS08D	4	4					
							TD	Total Depth @ 4' bgs			


								Sample Name: SS09		Date: 05/31/23	
								Site Name: Rojo 38 41 Tank Battery			
								Incident Number: nAPP2123555001			
								Job Number: 03C2012032			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: DN		Method: Backhoe	
Coordinates: 32.08719, -103.56502								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride tests performed with 1:4 dilution factor of soil to distilled water and 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE (fill)	0'-0.5' CALICHE, light brown, poorly sorted, sub-rounded grains, odor, dry, no staining, fill.			
D	1081	0.2	Y	SS09	0.5	0.5	SP	0.5'-4' SAND, brown, poorly sorted, fine grains, dry, no odor, not stained.			
D	330.4	0.4	N	SS09A		1					
D	<173	0.3	N	SS09B		2					
D	<173	0.3	N	SS09C		3					
D	<173	0.3	N	SS09D	4	4					
							TD	Total Depth @ 4' bgs			


								Sample Name: SS10		Date: 05/31/23	
								Site Name: Rojo 38 41 Tank Battery			
								Incident Number: nAPP2123555001			
								Job Number: 03C2012032			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: DN		Method: Backhoe	
Coordinates: 32.08719, -103.56502								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride tests performed with 1:4 dilution factor of soil to distilled water and 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE (fill)	0'-0.5' CALICHE, light brown, poorly sorted, sub-rounded grains, no odor, dry, no staining, fill.			
D	218.4	0.7	N	SS10	0.5	0.5	SP	0.5'-4' SAND, brown, poorly sorted, fine grains, dry, no odor, not stained.			
D	<173	0.4	N	SS10A		1					
D	<173	0.3	N	SS10B		2					
D	<173	0.5	N	SS10C		3					
D	<173	0.7	N	SS10D	4	4					
							TD	Total Depth @ 4' bgs			


 <b>ENSOLUM</b>					Sample Name:PH01		Date:2/20/2024	
					Site Name: Rojo 38 41 Tank Battery/ Well Pad			
					Incident Number: nAPP2123555001 / nAPP2400854443			
					Job Number: 03C2012032 / 03C2012088			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: CW/US		Method:	
Coordinates: 32.08771, -103.56522					Hole Diameter:18"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<168	0.0	N	PH01	0.5		SP	(1-4') SAND, very fine, dark brown, little silt, no odor
M	<168	0.0	N		1	1		
M	<168	0.0	N		2	2		
M	<168	0.0	N		3	3		
M	<168	0.0	N	PH01	4	4		
Total Depth @ 4 feet bgs								




 <b>ENSOLUM</b>		Sample Name: PH02		Date: 2/20/2024				
		Site Name: Rojo 38 41 Tank Battery/ Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522				Logged By: CW/US				
				Method:				
				Hole Diameter: 18"				
Total Depth: 4'								
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	7313	0.0	N	PH02	0.5		CCHE	(0-1') CALICHE, tan, with silt, little vf brown sand, no odor
M	840	0.0	N		1	1	SP	(1-4') SAND, very fine, dark brown, little silt, no odor
M	700	0.0	N	PH02	2	2		
M	459	0.0	N		3	3		
M	1165	0.0	N	PH02	4	4		(@4') some clay added
						Total Depth at 4 feet bgs		


 <b>ENSOLUM</b>		Sample Name: PH03		Date: 2/20/2024				
		Site Name: Rojo 38 41 Tank Battery/ Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522				Logged By: CW/US				
				Method:				
				Hole Diameter: 18"				
				Total Depth: 4'				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	235	0.0	N	PH03	0.5		CCHE	(0-1') CALICHE, tan, with silt, little vf brown sand, no odor
M	235	0.0	N		1	1	SP	(1-4') SAND, very fine, dark brown, little silt, no odor
M	408	0.0	N	PH03	2	2		
M	196	0.0	N		3	3		
M	162	0.0	N	PH03	4	4		(@4') some clay added
						Total Depth @ 4 feet bgs		


 <b>ENSOLUM</b>		Sample Name: PH04		Date: 2/20/2024				
		Site Name: Rojo 38 41 Tank Battery/ Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522				Logged By: CW/US				
				Method:				
				Hole Diameter: 18"				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	1075	0.0	N	PH04	0.5		CCHE	(0-1') CALICHE, tan, with silt, little vf brown sand, no odor
M	168	0.0	N	PH04	1	1	SP	(1-4') SAND, very fine, dark brown, little silt, no odor
M	<168	0.0	N		2	2		
M	<168	0.2	N		3	3		
M	<168	0.1	N	PH04	4	4		
						Total Depth @ 4 feet bgs		


 <b>ENSOLUM</b>		Sample Name: PH05		Date: 2/20/2024				
		Site Name: Rojo 38 41 Tank Battery/ Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522				Logged By: CW/US				
				Method:				
				Hole Diameter: 18"				
Total Depth: 4'								
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	459	0.0	N	PH05	0.5		CCHE	(0-1') CALICHE, tan, with silt, little vf brown sand, no odor
M	<168	0.0	N		1	1	SP	(1-4') SAND, very fine, dark brown, little silt, no odor
M	<168	0.0	N		2	2		
M	<168	0.0	N		3	3		
M	<168	0.0	N	PH05	4	4		(@4') some clay added
						Total Depth @ 4 feet bgs		




 <b>ENSOLUM</b>		Sample Name:PH06		Date:2/20/2024				
		Site Name: Rojo 38 41 Tank Battery/ Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: CW/US		Method:		
Coordinates: 32.08771, -103.56522				Hole Diameter:18"		Total Depth: 4'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<162	0.0	N	PH06	0.5		SP	(1-4') SAND, very fine, dark brown, little silt and clay, no odor
M	235	0.0	N		1	1		
M	235	0.0	N	PH06	2	2		
M	196	0.0	N		3	3		
M	632	0.0	N	PH06	4	4		
Total Depth @ 4 feet bgs								


 <b>ENSOLUM</b>		Sample Name: PH07		Date: 2/20/2024				
		Site Name: Rojo 38 41 Tank Battery/ Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522				Logged By: CW/US				
				Method:				
				Hole Diameter: 18"				
Total Depth: 4'								
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	1456	75.1	N	PH07	0.5		CCHE	(0-1') CALICHE, tan, with silt, little vf brown sand, faint hydrocarbon odor
M	<168	23.2	N		1	1	SP	(1-4') SAND, very fine, dark brown, little silt
M	<168	40.3	N	PH07	2	2		
M	<168	15.7	N		3	3		(@3') some clay added
M	<168	9.4	N	PH07	4	4		
						Total Depth @ 4 feet bgs		


 <b>ENSOLUM</b>		Sample Name: PH08		Date: 2/20/2024				
		Site Name: Rojo 38 41 Tank Battery/ Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: CW/US		Method:			
			Hole Diameter: 18"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<168	0.0	N		0.5		CCHE	(0-1') CALICHE, tan, with silt, little vf brown sand, no odor
M	<168	0.0	N		1	1	SP	(1-4') SAND, very fine, dark brown, little silt, no odor
M	<168	0.0	N		2	2		
M	<168	0.0	N		3	3		
M	<168	0.0	N		4	4		(@4') some clay added
						Total Depth @ 4 feet bgs		


 <b>ENSOLUM</b>		Sample Name: PH09		Date: 02/21/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: TH/US		Method: Hydrovac			
			Hole Diameter: 18 in		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	554.4	2.5	N	PH09	0.5	0.5	CCHF	(0-1') Caliche, beige, poorly sorted, fine sand with silt, no odor.
M	196	2.9	N	PH09	1	1	SP	(1'- 4') Sand, dark brown, poorly graded, no odor.
M	<168	3	N		2	2	SP	
M	<168	1.9	N		3	3	SP	
M	<168	0.4	N	PH09	4	4	SP	
						Total Depth @ 4 feet bgs		




 <b>ENSOLUM</b>		Sample Name: PH10		Date: 02/21/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: TH/US		Method: Hydrovac			
			Hole Diameter: 18 in		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	756	0.3	N	PH10	0.5	0.5	CCHE	(0-1') Caliche, beige, well sorted, no odor.
M	263	0.3	N	PH10	1	1	SP	(1'-4') Sand, dark brown, poorly graded, no odor.
M	<168	0.2	N		2	2		
M	<168	0.3	N		3	3		
M	<168	0.1	N	PH10	4	4		
						Total Depth @ 4 feet bgs		


 <b>ENSOLUM</b>		Sample Name: PH11		Date: 02/21/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: TH/US		Method: Hydrovac			
			Hole Diameter: 18 in		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	442	0.2	N	PH11	0.5	0.5	CCHE	(0-1') Caliche, beige, poorly sorted, fine sand with silt, no odor.
M	162.4	0.5	N	PH11	1	1	SP	(1'-2') Sand, fine, dark brown, poorly graded, no odor.
M	<168	0.5	N		2	2		
M	<168	0.4	N		3	3	SP	(3'-4') Sand, fine, dark brown, poorly graded with some clay, no odor.
M	<168	0.6	N	PH11	4	4		
						Total Depth @ 4 feet bgs		


 <b>ENSOLUM</b>		Sample Name: PH12		Date: 02/22/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: TH/US		Method: Hydrovac		
Coordinates: 32.08771, -103.56522				Hole Diameter: 18 in		Total Depth: 4'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1938	343.7	N	PH12	0.5	0.5	CCHE/SP	(0'-1') Caliche, tan, not mixing, very fine silt, brown sand, trace clay, faint HC odor.
M	554.4	4.8	N		1	1	SP	(1'-2') Sand and silt, brown, non-plastic clay
M	442.4	0.4	N	PH12	2	2	SP	(2'-4') Silt, dark brown, and trace clay.
M	554.4	0	N	PH12	3	3		
M	756	0	N		4	4		
Total Depth @ 4 feet bgs								


 <b>ENSOLUM</b>		Sample Name: PH13		Date: 02/22/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: TH/US		Method: Hydrovac			
			Hole Diameter: 18 in		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<168	0.8	Y	PH13	0.5	0.5	SP	(0'-1') Sand, brown, some clay.
M	<168	0.1	N	PH13	1	1	SP	(1'-2') Sand, brown, some clay and little silt.
M	<168	0.2	N		2	2	SP	(2'-3') Silt, brown, some clay, little sand.
M	229.6	0.5	N	PH13	3	3	SP	(3'-4') Silt, brown, more clay, with less sand.
M	621.6	0.6	N		4	4		
						Total Depth @ 4 feet bgs		

 <b>ENSOLUM</b>		Sample Name: PH14		Date: 02/22/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: TH/US		Method: Hydrovac			
			Hole Diameter: 18 in		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	1467	1331	Y	PH14	0.5	0.5	SP	(0'-1') Sand, dark brown, poorly graded, sheen present, and strong odor.
M	196	838.8	N		1	1	SP	(1'-2') Concrete mixed, silt and sand, sheen present, and strong odor.
M	442.4	842.2	N	PH14	2	2	SP	(2'-3') Sand, fine, poorly graded, dark brown, little silt, sheen present, and strong odor.
M	229.6	883.5	N		3	3	SP-SM	(3'-4') Poorly graded sand with silt, trace clay, dark brown, sheen present, and strong odor.
M	196	666.4	N	PH14	4	4		
						Total Depth @ 4 feet bgs		



 <b>ENSOLUM</b>		Sample Name: PH15		Date: 02/22/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: TH/US		Method: Hydrovac			
			Hole Diameter: 18 in		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	229.6	1214	N	PH15	0.5	0.5	SP-SM	(0'-1') Sand and silt, trace clay, beige, poorly graded, sheen present, and strong odor.
M	<168	975.6	N		1	1	SP-SC	(1'-4') Fine sand with little clay, poorly graded, sheen present, and strong odor.
M	<168	606.2	N	PH15	2	2		
M	<168	533.7	N		3	3		
M	<168	28	N	PH15	4	4		
						Total Depth @ 4 feet bgs		

 <b>ENSOLUM</b>		Sample Name: PH16		Date: 02/22/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: TH/US		Method: Hydrovac			
			Hole Diameter: 18 in		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<168	966.4	Y	PH16	0.5	0.5	SP-SC	(0'-1') Fine sand with trace clay, brown, strong odor.
M	<168	256.3	N		1	1	SP-SC	(1'-2') Fine sand with trace clay, brown, light odor.
M	<168	566.5	N		2	2	SP-SC	(2'-4') Fine sand with little clay, brown, sheen present, and light odor.
M	<168	105.3	N	PH16	3	3		
M	<168	361.8	N	PH16	4	4		
						Total Depth @ 4 feet bgs		

 <b>ENSOLUM</b>		Sample Name: PH17		Date: 02/22/24				
		Site Name: BTA Rojo 38 41 Tank Battery Well Pad						
		Incident Number: nAPP2123555001 / nAPP2400854443						
		Job Number: 03C2012032 / 03C2012088						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.08771, -103.56522			Logged By: TH/US		Method: Hydrovac			
			Hole Diameter: 18 in		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<168	355.5	N	PH17	0.5	0.5	CCHE-SF	(0'-1') Caliche and sand, little silt, tan with brown sand, sheen present, and strong odor.
M	<168	876.6	N		1	1	SP-SM	(1'-2') Dark brown sand with little silt, poorly graded, sheen present, and strong odor.
M	<168	343.8	N		2	2		
M	<168	191.5	N		3	3	SP-SC	(3'-4') Poorly graded sand with little clay, dark brown, sheen present, and strong odor.
M	235.2	350.2	N	PH17	4	4		
						Total Depth @ 4 feet bgs		



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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May 17, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 38 41 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/12/23 14:35.

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".

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 01 0.5' (H232399-01)**

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	05/15/2023	ND	2.32	116	2.00	6.49	
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96	
Total BTX	<0.300	0.300	05/15/2023	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	256	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	56.9	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 02 0.5' (H232399-02)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEX	<0.300	0.300	05/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 106 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 03 0.5' (H232399-03)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEX	<0.300	0.300	05/15/2023	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	192	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 04 0.5' (H232399-04)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEX	<0.300	0.300	05/15/2023	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	32.0	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 05 0.5' (H232399-05)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEx	<0.300	0.300	05/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 107 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 06 0.5' (H232399-06)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEX	<0.300	0.300	05/15/2023	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	272	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 107 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 07 0.5' (H232399-07)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEx	<0.300	0.300	05/15/2023	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	320	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 08 0.5' (H232399-08)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEX	<0.300	0.300	05/15/2023	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	528	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	219	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	152	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 09 0.5' (H232399-09)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEx	<0.300	0.300	05/15/2023	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	768	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	<10.0	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	14.8	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/12/2023  
Reported: 05/17/2023  
Project Name: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Location: BTA 32.08719,-103.56502

Sampling Date: 05/11/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 10 0.5' (H232399-10)**

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	05/15/2023	ND	2.32	116	2.00	6.49		
Toluene*	<0.050	0.050	05/15/2023	ND	2.31	115	2.00	5.99		
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.27	114	2.00	6.05		
Total Xylenes*	<0.150	0.150	05/15/2023	ND	6.91	115	6.00	6.96		
Total BTEx	<0.300	0.300	05/15/2023	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	144	16.0	05/15/2023	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	05/15/2023	ND	205	103	200	4.83	
DRO >C10-C28*	15.7	10.0	05/15/2023	ND	180	89.8	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	05/15/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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".

---

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: Ensolum, LLC										<b>BILL TO</b>										ANALYSIS REQUEST																													
Project Manager: Hadlie Green										P.O. #:																																							
Address: 3122 National Parks Hwy										Company: BTA Oil																																							
City: Carlsbad										State: NM Zip: 88220										Attn: Kevin Jones																													
Phone #: 432-557-8895										Fax #:										Address: 104 S Pecos St																													
Project #: 03C2012032										Project Owner: BTA Oil Producers										City: Midland																													
Project Name: Rojo 38 41 Tank Battery										State: TX Zip: 79701																																							
Project Location: 32.08719, -103.56502										Phone #: 432-312-2203																																							
Sampler Name: Ronni Hayes										Fax #:																																							
FOR LAB USE ONLY																																																	
Lab I.D.										Sample I.D.										Depth (feet)																													
<div style="display: flex; justify-content: space-between;"> <div> <b>Matrix</b>  <input type="checkbox"/> GROUNDWATER  <input type="checkbox"/> WASTEWATER  <input checked="" type="checkbox"/> SOIL  <input type="checkbox"/> OIL  <input type="checkbox"/> SLUDGE  <input type="checkbox"/> OTHER : </div> <div> <b>Acid/Base</b>  <input checked="" type="checkbox"/> ICE / COOL  <input type="checkbox"/> OTHER : </div> </div>										<b>DATE</b> 5/11/23										<b>TIME</b> 11:40										BTEX TPH CI-																			
1										5501										0.5'																													
2										5502																																							
3										5503																																							
4										5504																																							
5										5505																																							
6										5506																																							
7										5507																																							
8										5508																																							
9										5509																																							
10										5510																																							

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Relinquished By: <i>[Signature]</i>										Date: 5-12-23										Received By: <i>[Signature]</i>										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:									
Relinquished By: <i>[Signature]</i>										Date: 5-12-23										Received By: <i>[Signature]</i>										All Results are emailed. Please provide Email address:									
Time:										Time:										REMARKS:																			
Delivered By: (Circle One)										Observed Temp.: °C										Sample Condition										CHECKED BY: (Initials)									
Sampler - UPS - Bus - Other:										Corrected Temp.: °C										Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>										Thermometer ID #113									
																				Yes <input type="checkbox"/> No <input type="checkbox"/>										Correction Factor -0.5°C									
																				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>										Bacteria (only) <input type="checkbox"/>									
																				Cool <input type="checkbox"/> Intact <input type="checkbox"/>										Sample Condition									
																				Yes <input type="checkbox"/> No <input type="checkbox"/>										Observed Temp.: °C									
																				Corrected Temp.: °C																			



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June 06, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 38 41 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/02/23 8:34.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:Reported:  
06-Jun-23 16:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS 05 A 4'	H232791-01	Soil	31-May-23 09:50	02-Jun-23 08:34
SS 06 A 4'	H232791-02	Soil	31-May-23 10:30	02-Jun-23 08:34
SS 07 A 4'	H232791-03	Soil	31-May-23 11:10	02-Jun-23 08:34
SS 08 A 4'	H232791-04	Soil	31-May-23 11:50	02-Jun-23 08:34
SS 09 A 4'	H232791-05	Soil	31-May-23 12:30	02-Jun-23 08:34
SS 10 A 4'	H232791-06	Soil	31-May-23 13:10	02-Jun-23 08:34

06/06/23 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent earlier today  
06/06/23.

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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

**SS 05 A 4'**  
**H232791-01 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	3060213	AC	02-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060219	MS	02-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3060219 MS 02-Jun-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	

Surrogate: 1-Chlorooctane 99.7 % 48.2-134 3060205 MS 02-Jun-23 8015B

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148 3060205 MS 02-Jun-23 8015B

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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

**SS 06 A 4'**  
**H232791-02 (Soil)**

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

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3060213	AC	02-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	3060219	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060219	MS	05-Jun-23	8021B	GC-NC
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060219	MS	05-Jun-23	8021B	GC-NC
<b>Total Xylenes*</b>	<b>5.75</b>		0.150	mg/kg	50	3060219	MS	05-Jun-23	8021B	GC-NC1
<b>Total BTEX</b>	<b>5.75</b>		0.300	mg/kg	50	3060219	MS	05-Jun-23	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 427 % 71.5-134 3060219 MS 05-Jun-23 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>321</b>		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>255</b>		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>337</b>		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	

Surrogate: 1-Chlorooctane 163 % 48.2-134 3060205 MS 02-Jun-23 8015B

Surrogate: 1-Chlorooctadecane 145 % 49.1-148 3060205 MS 02-Jun-23 8015B

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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

**SS 07 A 4'**  
**H232791-03 (Soil)**

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

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	3060213	AC	02-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	3060219	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060219	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060219	MS	05-Jun-23	8021B	GC-NC
<b>Total Xylenes*</b>	<b>0.400</b>		0.150	mg/kg	50	3060219	MS	05-Jun-23	8021B	GC-NC1
<b>Total BTEX</b>	<b>0.400</b>		0.300	mg/kg	50	3060219	MS	05-Jun-23	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 151 % 71.5-134 3060219 MS 05-Jun-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>49.9</b>		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>31.9</b>		10.0	mg/kg	1	3060205	MS	02-Jun-23	8015B	

Surrogate: 1-Chlorooctane 104 % 48.2-134 3060205 MS 02-Jun-23 8015B

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148 3060205 MS 02-Jun-23 8015B

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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

**SS 08 A 4'**  
**H232791-04 (Soil)**

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

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	3060213	AC	02-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060219	MS	02-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		3060219	MS	02-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	

Surrogate: 1-Chlorooctane			107 %	48.2-134		3060214	MS	02-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		3060214	MS	02-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

**SS 09 A 4'**  
**H232791-05 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3060213	AC	02-Jun-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060219	MS	02-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3060219	MS	02-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	

Surrogate: 1-Chlorooctane			102 %	48.2-134		3060214	MS	02-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	49.1-148		3060214	MS	02-Jun-23	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

**SS 10 A 4'**  
**H232791-06 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3060213	AC	02-Jun-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060219	MS	02-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060219	MS	02-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	71.5-134		3060219	MS	02-Jun-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060214	MS	02-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %	48.2-134		3060214	MS	02-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		3060214	MS	02-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3060213 - 1:4 DI Water</b>									
<b>Blank (3060213-BLK1)</b>					Prepared & Analyzed: 02-Jun-23				
Chloride	ND	16.0	mg/kg						
<b>LCS (3060213-BS1)</b>					Prepared & Analyzed: 02-Jun-23				
Chloride	416	16.0	mg/kg	400		104 80-120			
<b>LCS Dup (3060213-BSD1)</b>					Prepared & Analyzed: 02-Jun-23				
Chloride	416	16.0	mg/kg	400		104 80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3060219 - Volatiles****Blank (3060219-BLK1)**

Prepared &amp; Analyzed: 02-Jun-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

**LCS (3060219-BS1)**

Prepared &amp; Analyzed: 02-Jun-23

Benzene	2.19	0.050	mg/kg	2.00		109	81.4-118			
Toluene	2.26	0.050	mg/kg	2.00		113	88.7-121			
Ethylbenzene	2.49	0.050	mg/kg	2.00		124	86.1-120			BS-3
m,p-Xylene	4.87	0.100	mg/kg	4.00		122	88.2-124			
o-Xylene	2.42	0.050	mg/kg	2.00		121	84.9-118			BS-3
Total Xylenes	7.45	0.150	mg/kg	6.00		124	87.3-122			BS-3
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	71.5-134			

**LCS Dup (3060219-BSD1)**

Prepared &amp; Analyzed: 02-Jun-23

Benzene	2.29	0.050	mg/kg	2.00		114	81.4-118	4.37	15.8	
Toluene	2.42	0.050	mg/kg	2.00		121	88.7-121	6.78	15.9	
Ethylbenzene	2.52	0.050	mg/kg	2.00		126	86.1-120	1.28	16	BS-3
m,p-Xylene	5.09	0.100	mg/kg	4.00		127	88.2-124	4.34	16.2	BS-3
o-Xylene	2.49	0.050	mg/kg	2.00		124	84.9-118	2.63	16.7	BS-3
Total Xylenes	7.58	0.150	mg/kg	6.00		126	87.3-122	1.63	16.3	BS-3
Surrogate: 4-Bromofluorobenzene (PID)	0.0528		mg/kg	0.0500		106	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3060205 - General Prep - Organics****Blank (3060205-BLK1)**

Prepared &amp; Analyzed: 02-Jun-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.0		mg/kg	49.6		84.8	48.2-134			
Surrogate: 1-Chlorooctadecane	39.8		mg/kg	50.0		79.7	49.1-148			

**LCS (3060205-BS1)**

Prepared &amp; Analyzed: 02-Jun-23

GRO C6-C10	194	10.0	mg/kg	200		96.9	78.5-124			
DRO >C10-C28	179	10.0	mg/kg	200		89.5	72.5-126			
Total TPH C6-C28	373	10.0	mg/kg	400		93.2	77.6-123			
Surrogate: 1-Chlorooctane	49.6		mg/kg	49.6		100	48.2-134			
Surrogate: 1-Chlorooctadecane	44.7		mg/kg	50.0		89.4	49.1-148			

**LCS Dup (3060205-BS1)**

Prepared &amp; Analyzed: 02-Jun-23

GRO C6-C10	187	10.0	mg/kg	200		93.6	78.5-124	3.49	17.7	
DRO >C10-C28	172	10.0	mg/kg	200		86.0	72.5-126	3.98	21	
Total TPH C6-C28	359	10.0	mg/kg	400		89.8	77.6-123	3.72	18.5	
Surrogate: 1-Chlorooctane	47.4		mg/kg	49.6		95.6	48.2-134			
Surrogate: 1-Chlorooctadecane	42.7		mg/kg	50.0		85.4	49.1-148			

**Batch 3060214 - General Prep - Organics****Blank (3060214-BLK1)**

Prepared &amp; Analyzed: 02-Jun-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.2		mg/kg	49.6		89.2	48.2-134			
Surrogate: 1-Chlorooctadecane	45.4		mg/kg	50.0		90.8	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:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: ROJO 38 41 TANK BATTERY  
Project Number: 03C2012032  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
06-Jun-23 16:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3060214 - General Prep - Organics****LCS (3060214-BS1)**

Prepared &amp; Analyzed: 02-Jun-23

GRO C6-C10	180	10.0	mg/kg	200		90.1	78.5-124			
DRO >C10-C28	171	10.0	mg/kg	200		85.4	72.5-126			
Total TPH C6-C28	351	10.0	mg/kg	400		87.8	77.6-123			
Surrogate: 1-Chlorooctane	50.7		mg/kg	49.6		102	48.2-134			
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	49.1-148			

**LCS Dup (3060214-BSD1)**

Prepared &amp; Analyzed: 02-Jun-23

GRO C6-C10	175	10.0	mg/kg	200		87.7	78.5-124	2.71	17.7	
DRO >C10-C28	177	10.0	mg/kg	200		88.3	72.5-126	3.35	21	
Total TPH C6-C28	352	10.0	mg/kg	400		88.0	77.6-123	0.282	18.5	
Surrogate: 1-Chlorooctane	48.6		mg/kg	49.6		98.2	48.2-134			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.6	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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

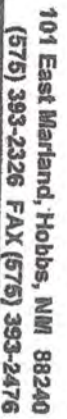
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





**BILL TO**

## ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [celey.lee@carnallabsnm.com](mailto:celey.lee@carnallabsnm.com)



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

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January 16, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROJO 38-41 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 01/11/24 14:34.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS 30	H240135-01	Soil	11-Jan-24 11:48	11-Jan-24 14:34
SS 31	H240135-02	Soil	11-Jan-24 11:50	11-Jan-24 14:34
SS 32	H240135-03	Soil	11-Jan-24 11:52	11-Jan-24 14:34
SS 33	H240135-04	Soil	11-Jan-24 11:53	11-Jan-24 14:34
SS 34	H240135-05	Soil	11-Jan-24 11:54	11-Jan-24 14:34
SS 35	H240135-06	Soil	11-Jan-24 11:56	11-Jan-24 14:34
SS 36	H240135-07	Soil	11-Jan-24 11:57	11-Jan-24 14:34
SS 37	H240135-08	Soil	11-Jan-24 11:58	11-Jan-24 14:34
SS 38	H240135-09	Soil	11-Jan-24 11:59	11-Jan-24 14:34
SS 39	H240135-10	Soil	11-Jan-24 12:00	11-Jan-24 14:34

Samples -32, -34, -37, -38 and -39 had water from cooler in them. Results may be affected.

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

**SS 30****H240135-01 (Soil)**

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

<b>Chloride</b>	<b>304</b>		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4011234	JH	13-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	96.8 %	71.5-134	4011234	JH	13-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4011217	MS	12-Jan-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4011217	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4011217	MS	12-Jan-24	8015B	

Surrogate: 1-Chlorooctane	90.5 %	48.2-134	4011217	MS	12-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane	92.2 %	49.1-148	4011217	MS	12-Jan-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

SS 31

H240135-02 (Soil)

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

Chloride	480		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011234	JH	13-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.4 %		71.5-134	4011234	JH	13-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011217	MS	12-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011217	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011217	MS	12-Jan-24	8015B	

Surrogate: 1-Chlorooctane			86.1 %		48.2-134	4011217	MS	12-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			90.0 %		49.1-148	4011217	MS	12-Jan-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

**SS 32****H240135-03 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011234	JH	13-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011234	JH	13-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.9 %		71.5-134	4011234	JH	13-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011217	MS	13-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011217	MS	13-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011217	MS	13-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.8 %		48.2-134	4011217	MS	13-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.6 %		49.1-148	4011217	MS	13-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

SS 33

H240135-04 (Soil)

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

Chloride	368		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	15.3		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	QM-07, QR-03
Toluene*	102		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	QM-07, QR-03
Ethylbenzene*	20.4		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	QM-07
Total Xylenes*	247		3.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	QM-07, QR-03
Total BTEX	384		6.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)

143 %

71.5-134

4011208

JH

12-Jan-24

8021B

**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	9740		50.0	mg/kg	5	4011217	MS	13-Jan-24	8015B	
DRO >C10-C28*	16300		50.0	mg/kg	5	4011217	MS	13-Jan-24	8015B	
EXT DRO >C28-C36	2580		50.0	mg/kg	5	4011217	MS	13-Jan-24	8015B	

Surrogate: 1-Chlorooctane

697 %

48.2-134

4011217

MS

13-Jan-24

8015B

Surrogate: 1-Chlorooctadecane

348 %

49.1-148

4011217

MS

13-Jan-24

8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

SS 34

H240135-05 (Soil)

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

Chloride	1300		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011208	JH	12-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.4 %		71.5-134	4011208	JH	12-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	

Surrogate: 1-Chlorooctane			90.8 %		48.2-134	4011218	MS	12-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			81.8 %		49.1-148	4011218	MS	12-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

SS 35

H240135-06 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011208	JH	12-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.8 %		71.5-134	4011208	JH	12-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	

Surrogate: 1-Chlorooctane			92.0 %		48.2-134	4011218	MS	12-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			81.9 %		49.1-148	4011218	MS	12-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

**SS 36****H240135-07 (Soil)**

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

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
<b>Toluene*</b>	<b>0.053</b>	0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4011208	JH	12-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4011208	JH	12-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	98.3 %	71.5-134	4011208	JH	12-Jan-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B

Surrogate: 1-Chlorooctane	93.2 %	48.2-134	4011218	MS	12-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	85.2 %	49.1-148	4011218	MS	12-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

SS 37

H240135-08 (Soil)

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

Chloride	1440		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	5.69		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
Toluene*	48.0		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
Ethylbenzene*	10.6		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
Total Xylenes*	132		3.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
Total BTEX	196		6.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %		71.5-134	4011208	JH	12-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	4450		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	
DRO >C10-C28*	6790		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	1210		10.0	mg/kg	1	4011218	MS	12-Jan-24	8015B	

Surrogate: 1-Chlorooctane			389 %		48.2-134	4011218	MS	12-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			157 %		49.1-148	4011218	MS	12-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

**SS 38****H240135-09 (Soil)**

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

<b>Chloride</b>	<b>608</b>		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>21.4</b>		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
<b>Toluene*</b>	<b>132</b>		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
<b>Ethylbenzene*</b>	<b>21.1</b>		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
<b>Total Xylenes*</b>	<b>268</b>		3.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
<b>Total BTEX</b>	<b>443</b>		6.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			125 %		71.5-134	4011208	JH	12-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>13200</b>		50.0	mg/kg	5	4011218	MS	13-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>17000</b>		50.0	mg/kg	5	4011218	MS	13-Jan-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>4240</b>		50.0	mg/kg	5	4011218	MS	13-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			953 %		48.2-134	4011218	MS	13-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			343 %		49.1-148	4011218	MS	13-Jan-24	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

**SS 39****H240135-10 (Soil)**

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

Chloride	880		16.0	mg/kg	4	4011511	HM	15-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	29.1		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
Toluene*	168		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
Ethylbenzene*	23.7		1.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
Total Xylenes*	301		3.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	
Total BTEX	522		6.00	mg/kg	1000	4011208	JH	12-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	128 %		71.5-134			4011208	JH	12-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	9670		50.0	mg/kg	5	4011218	MS	13-Jan-24	8015B	
DRO >C10-C28*	10900		50.0	mg/kg	5	4011218	MS	13-Jan-24	8015B	
EXT DRO >C28-C36	1840		50.0	mg/kg	5	4011218	MS	13-Jan-24	8015B	

Surrogate: 1-Chlorooctane	549 %		48.2-134			4011218	MS	13-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane	221 %		49.1-148			4011218	MS	13-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4011511 - 1:4 DI Water</b>									
<b>Blank (4011511-BLK1)</b>					Prepared & Analyzed: 15-Jan-24				
Chloride	ND	16.0	mg/kg						
<b>LCS (4011511-BS1)</b>					Prepared & Analyzed: 15-Jan-24				
Chloride	464	16.0	mg/kg	400	116	80-120			
<b>LCS Dup (4011511-BSD1)</b>					Prepared & Analyzed: 15-Jan-24				
Chloride	464	16.0	mg/kg	400	116	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4011208 - Volatiles****Blank (4011208-BLK1)**

Prepared &amp; Analyzed: 12-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.8	71.5-134			

**LCS (4011208-BS1)**

Prepared &amp; Analyzed: 12-Jan-24

Benzene	2.13	0.050	mg/kg	2.00		107	82.8-130			
Toluene	2.12	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.18	0.150	mg/kg	6.00		103	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	71.5-134			

**LCS Dup (4011208-BSD1)**

Prepared &amp; Analyzed: 12-Jan-24

Benzene	2.15	0.050	mg/kg	2.00		107	82.8-130	0.824	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	1.05	15.9	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128	1.14	16	
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	89-129	1.15	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	1.14	16.7	
Total Xylenes	6.25	0.150	mg/kg	6.00		104	88.2-128	1.15	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.8	71.5-134			

**Batch 4011234 - Volatiles****Blank (4011234-BLK1)**

Prepared &amp; Analyzed: 12-Jan-24

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

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4011234 - Volatiles****Blank (4011234-BLK1)**

Prepared &amp; Analyzed: 12-Jan-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.1	71.5-134			

**LCS (4011234-BS1)**

Prepared &amp; Analyzed: 12-Jan-24

Benzene	2.21	0.050	mg/kg	2.00		111	82.8-130			
Toluene	2.21	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.21	0.050	mg/kg	2.00		110	85.9-128			
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.14	0.050	mg/kg	2.00		107	86.1-125			
Total Xylenes	6.45	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.7	71.5-134			

**LCS Dup (4011234-BS1)**

Prepared &amp; Analyzed: 12-Jan-24

Benzene	2.14	0.050	mg/kg	2.00		107	82.8-130	3.10	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	3.16	15.9	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	85.9-128	3.58	16	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89-129	3.74	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	2.63	16.7	
Total Xylenes	6.23	0.150	mg/kg	6.00		104	88.2-128	3.37	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4011217 - General Prep - Organics****Blank (4011217-BLK1)**

Prepared &amp; Analyzed: 12-Jan-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.7	48.2-134			
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.4	49.1-148			

**LCS (4011217-BS1)**

Prepared &amp; Analyzed: 12-Jan-24

GRO C6-C10	181	10.0	mg/kg	200		90.3	66.4-123			
DRO >C10-C28	176	10.0	mg/kg	200		88.0	66.5-118			
Total TPH C6-C28	357	10.0	mg/kg	400		89.1	77.6-123			
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.3	48.2-134			
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0		94.7	49.1-148			

**LCS Dup (4011217-BS1)**

Prepared &amp; Analyzed: 12-Jan-24

GRO C6-C10	183	10.0	mg/kg	200		91.4	66.4-123	1.24	17.7	
DRO >C10-C28	151	10.0	mg/kg	200		75.5	66.5-118	15.4	21	
Total TPH C6-C28	334	10.0	mg/kg	400		83.4	77.6-123	6.63	18.5	
Surrogate: 1-Chlorooctane	47.9		mg/kg	50.0		95.9	48.2-134			
Surrogate: 1-Chlorooctadecane	48.2		mg/kg	50.0		96.5	49.1-148			

**Batch 4011218 - General Prep - Organics****Blank (4011218-BLK1)**

Prepared &amp; Analyzed: 12-Jan-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.6		mg/kg	50.0		87.2	48.2-134			
Surrogate: 1-Chlorooctadecane	39.4		mg/kg	50.0		78.8	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: ROJO 38-41 WELL PAD  
Project Number: 03C2012088  
Project Manager: HADLIE GREEN  
Fax To:

Reported:  
16-Jan-24 15:37

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4011218 - General Prep - Organics****LCS (4011218-BS1)**

Prepared &amp; Analyzed: 12-Jan-24

GRO C6-C10	187	10.0	mg/kg	200		93.3	66.4-123			
DRO >C10-C28	179	10.0	mg/kg	200		89.5	66.5-118			
Total TPH C6-C28	366	10.0	mg/kg	400		91.4	77.6-123			
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.3	48.2-134			
Surrogate: 1-Chlorooctadecane	41.0		mg/kg	50.0		82.0	49.1-148			

**LCS Dup (4011218-BS1)**

Prepared &amp; Analyzed: 12-Jan-24

GRO C6-C10	190	10.0	mg/kg	200		94.9	66.4-123	1.72	17.7	
DRO >C10-C28	179	10.0	mg/kg	200		89.4	66.5-118	0.112	21	
Total TPH C6-C28	369	10.0	mg/kg	400		92.2	77.6-123	0.828	18.5	
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.0	48.2-134			
Surrogate: 1-Chlorooctadecane	41.5		mg/kg	50.0		83.1	49.1-148			

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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.
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.
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

Company Name: **Engelhardt, LLC**  
Project Manager: **Hadi Green**  
Address: **601 N. Mariusfeld St. STE 400**  
City: **Midland** State: **TX** Zip: **79701**  
Phone #: **(432) 557-8895** Fax #:   
Project #: **03C2012088** Project Owner:   
Project Name: **Krip 38-41 Well Pad**  
Project Location: **Lea County**  
Sampler Name: **SK**

FOR LAB USE ONLY

Lab I.D. **HA40135** Sample I.D. **201**

Matrix: ☒ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER: **ACID/BASE: ICE / COOL**

Preservation: ☒ DATE: **11/11/24** TIME: **11:58**

Sampling: ☒ BTEX ☒ TPH ☒ Chloride

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Abandoned By: **11/11/24** Received By: **11/11/24**

Observed Temp. °C: **1.90** Corrected Temp. °C: **1.90**

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

Turnaround Time: **Standard** ☒ Rush ☐ Bacteria (only) ☐ Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No

Thermometer ID #140 Correction Factor 0°C

Remarks: **Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address:**



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

February 01, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 38 41 TANK BATTERY / ROJO 38-41 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 01/30/24 13:18.

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 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 11 0.5' (H240409-01)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61	
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19	
Total BTEX	<0.300	0.300	01/30/2024	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	80.0	16.0	01/31/2024	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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	31.6	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 12 0.5' (H240409-02)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	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	64.0	16.0	01/31/2024	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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	13.2	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 13 0.5' (H240409-03)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	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	80.0	16.0	01/31/2024	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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	21.3	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 14 0.5' (H240409-04)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/31/2024	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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	11.3	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 15 0.5' (H240409-05)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	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	80.0	16.0	01/31/2024	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	01/31/2024	ND	240	120	200	18.5	
DRO >C10-C28*	26.9	10.0	01/31/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 122 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 16 0.5' (H240409-06)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	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	192	16.0	01/31/2024	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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 17 0.5' (H240409-07)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 18 0.5' (H240409-08)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	240	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 19 0.5' (H240409-09)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	240	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 20 0.5' (H240409-10)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	224	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 21 0.5' (H240409-11)**

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	01/30/2024	ND	1.97	98.3	2.00	9.61		
Toluene*	<0.050	0.050	01/30/2024	ND	1.97	98.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.97	98.5	2.00	10.3		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.05	101	6.00	9.19		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	240	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 22 0.5' (H240409-12)**

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	01/31/2024	ND	2.11	105	2.00	0.496		
Toluene*	<0.050	0.050	01/31/2024	ND	2.09	105	2.00	0.277		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.07	104	2.00	0.458		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.07	101	6.00	0.494		
Total BTEX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	240	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 23 0.5' (H240409-13)**

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	01/31/2024	ND	2.11	105	2.00	0.496		
Toluene*	<0.050	0.050	01/31/2024	ND	2.09	105	2.00	0.277		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.07	104	2.00	0.458		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.07	101	6.00	0.494		
Total BTEX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	32.0	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 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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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 24 0.5' (H240409-14)**

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	01/31/2024	ND	2.11	105	2.00	0.496		
Toluene*	<0.050	0.050	01/31/2024	ND	2.09	105	2.00	0.277		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.07	104	2.00	0.458		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.07	101	6.00	0.494		
Total BTEX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	16.0	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 25 0.5' (H240409-15)**

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	01/31/2024	ND	2.11	105	2.00	0.496		
Toluene*	<0.050	0.050	01/31/2024	ND	2.09	105	2.00	0.277		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.07	104	2.00	0.458		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.07	101	6.00	0.494		
Total BTEX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	240	120	200	18.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	238	119	200	19.5	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 26 0.5' (H240409-16)**

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	01/31/2024	ND	2.11	105	2.00	0.496		
Toluene*	<0.050	0.050	01/31/2024	ND	2.09	105	2.00	0.277		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.07	104	2.00	0.458		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.07	101	6.00	0.494		
Total BTEX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	16.0	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	201	101	200	0.352	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	220	110	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 109 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 27 0.5' (H240409-17)**

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	01/31/2024	ND	2.11	105	2.00	0.496		
Toluene*	<0.050	0.050	01/31/2024	ND	2.09	105	2.00	0.277		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.07	104	2.00	0.458		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.07	101	6.00	0.494		
Total BTEX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	16.0	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	201	101	200	0.352	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	220	110	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 28 0.5' (H240409-18)**

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	01/31/2024	ND	2.11	105	2.00	0.496		
Toluene*	<0.050	0.050	01/31/2024	ND	2.09	105	2.00	0.277		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.07	104	2.00	0.458		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.07	101	6.00	0.494		
Total BTEX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	32.0	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	201	101	200	0.352	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	220	110	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/30/2024	Sampling Date:	01/29/2024
Reported:	02/01/2024	Sampling Type:	Soil
Project Name:	ROJO 38 41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 29 0.5' (H240409-19)**

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	01/31/2024	ND	2.11	105	2.00	0.496		
Toluene*	<0.050	0.050	01/31/2024	ND	2.09	105	2.00	0.277		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.07	104	2.00	0.458		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.07	101	6.00	0.494		
Total BTEX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	<16.0	16.0	01/31/2024	ND	432	108	400	7.14		

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	01/30/2024	ND	201	101	200	0.352	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	220	110	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 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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Notes and Definitions

- S-05            The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04           The RPD for the BS/BSD was outside of historical limits.
- QM-07           The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: Hadlie Green		Company: BTA Oil			
Address: 3122 National Parks Hwy		Attn: Kelton Bearird			
City: Carlsbad		Address: 104 S Pecos St			
Phone #: 432 557-8895		City: Midland			
Fax #: 432 557-8895		State: TX Zip: 79701			
Project #: 03C2012032 / 03C2012088		Phone #:			
Project Name: Rojo 38 41 Tank Battery / Rojo 38-41 Well Pad		Fax #:			
Project Location:					
Sampler Name: Connor Whitman					
FOR LAB USE ONLY					
Lab I.D.		Sample I.D.			
Sample Depth (feet)		(G)RAB OR (C)OMP.			
# CONTAINERS		GROUNDWATER			
WASTEWATER		SOIL			
OIL		SLUDGE			
OTHER :		ACID/BASE:			
ICE / COOL		OTHER :			
DATE		TIME			
1/29/24		1015		TPH	
1020		1025		Chloride	
1030		1035		BTEX	
1040		1045			
1050		1055			
1130					
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Relinquished By:		Received By:			
Date: 1/30/24		Date: 1/30/24			
Time: 1318		Time: 1318			
Relinquished By:		Received By:			
Time:		Time:			
Delivered By: (Circle One)		Observed Temp. °C			
Sampler - UPS - Bus - Other:		Corrected Temp. °C			
Sample Condition		CHECKED BY: (Initials)			
Cool Intact		SE			
Yes Yes					
No No					
Turnaround Time:		Standard			
Thermometer ID		Rush			
Correction Factor		#140			
Bacteria (only)		Sample Condition			
Cool Intact		Observed Temp. °C			
Yes Yes					
No No					
Corrected Temp. °C					





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 432 557-8895

Project #: 03C2012032 / 03C2012088

Project Name: Rojo 38 41 Tank Battery / Rojo 38-41 Well Pad

Project Location:

Sampler Name: Connor Whitman

FOR LAB USE ONLY

P.O. #:

Company: BTA Oil

Attn: Kelton Beaird

Address: 104 S Pecos St

City: Midland

State: TX Zip: 79701

Phone #:

Fax #:

PRESERV

OTHER :

ICE / COOL

ACID/BASE:

OTHER :

SLUDGE

OIL

SOIL

WASTEWATER

GROUNDWATER

# CONTAINERS

(G)RAB OR (C)OMP.

Sample Depth (feet)

Sample I.D.

Lab I.D.

TPH

CHLORIDE

BTEX

DATE

TIME

11/27/24

11:55

11:40

11:45

11:50

11:55

12:00

12:05

12:10

12:15

12:20

12:25

12:30

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Relinquished By: *Cardinal* Date: *11/27/24* Time: *13:18* Received By: *Stoddard*

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Delivered By: (Circle One) ☒ Observed Temp. °C *6.9* ☐ Corrected Temp. °C \_\_\_\_\_ Sample Condition ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Checked BY: *SR* (Initials)

Sampler - UPS - Bus - Other: \_\_\_\_\_ Thermometer ID # *1140* ☐ Bacteria (only) ☐ Sample Condition ☐ Cool ☐ Intact ☐ Observed Temp. °C \_\_\_\_\_ ☐ Corrected Temp. °C \_\_\_\_\_

Turnaround Time: ☒ Standard ☐ Rush ☐ Bacteria (only) ☐ Sample Condition ☐ Cool ☐ Intact ☐ Observed Temp. °C \_\_\_\_\_ ☐ Corrected Temp. °C \_\_\_\_\_

REMARKS: nAPP2123555001 / nAPP2400854443

Verbal Result: ☐ Yes ☐ No Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: HGreen@ensolum.com

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





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

February 29, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BTA ROJO 38 41 TANK BATTERY/WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 02/23/24 11:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH01 0.5' (H240903-01)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	64.0	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	202	101	200	3.07	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	199	99.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH01 4' (H240903-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	32.0	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	202	101	200	3.07	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	199	99.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH02 0.5' (H240903-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	5120	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	202	101	200	3.07	
DRO >C10-C28*	41.1	10.0	02/26/2024	ND	199	99.7	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH02 2' (H240903-04)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH02 4' (H240903-05)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	848	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH03 0.5' (H240903-06)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	336	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	137	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	446	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH03 2' (H240903-07)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	336	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH03 4' (H240903-08)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	144	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH04 0.5' (H240903-09)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	816	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH04 1' (H240903-10)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	160	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH04 4' (H240903-11)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	64.0	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH05 0.5' (H240903-12)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEX	<0.300	0.300	02/26/2024	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	400	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH05 4' (H240903-13)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00	
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934	
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940	
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475	
Total BTEX	<0.300	0.300	02/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952		
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110		
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND						

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH06 0.5' (H240903-14)**

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	02/26/2024	ND	1.92	96.0	2.00	3.00		
Toluene*	<0.050	0.050	02/26/2024	ND	1.99	99.7	2.00	0.934		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	1.99	99.4	2.00	0.940		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.05	101	6.00	0.475		
Total BTEx	<0.300	0.300	02/26/2024	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	32.0	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	601	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	163	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH06 2' (H240903-15)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576	QR-03	
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421	QR-03	
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578	QR-03	
Total BTEX	<0.300	0.300	02/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	248	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	60.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH06 4' (H240903-16)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	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	576	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	18.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH07 0.5' (H240903-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.125	0.050	02/27/2024	ND	2.09	105	2.00	0.864	GC-NC1	
Toluene*	0.237	0.050	02/27/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.39	106	6.00	0.578		
Total BTEX	0.362	0.300	02/27/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	1120	16.0	02/27/2024	ND	416	104	400	3.77		

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*	137	100	02/27/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	22600	100	02/27/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	5710	100	02/27/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 507 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH07 2' (H240903-18)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 112 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH07 4' (H240903-19)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	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	128	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	47.9	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH08 0.5' (H240903-20)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	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	160	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/20/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH08 4' (H240903-21)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	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	80.0	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH09 0.5' (H240903-22)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	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	640	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 73.5 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH09 1' (H240903-23)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	160	16.0	02/27/2024	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	02/26/2024	ND	191	95.3	200	0.952	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	172	86.2	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH09 4' (H240903-24)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	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	64.0	16.0	02/27/2024	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	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	QM-07
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH10 0.5' (H240903-25)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	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	848	16.0	02/27/2024	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	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	22.7	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH10 1' (H240903-26)**

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	02/26/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/26/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	208	16.0	02/27/2024	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	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH10 4' (H240903-27)**

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	02/27/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/27/2024	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	64.0	16.0	02/27/2024	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	02/26/2024	ND	208	104	200	1.09		
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61		
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND						

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH11 0.5' (H240903-28)**

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	02/27/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	576	16.0	02/27/2024	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	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH11 1' (H240903-29)**

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	02/27/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/27/2024	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	176	16.0	02/27/2024	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	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/21/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH11 4' (H240903-30)**

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	02/27/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/27/2024	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	64.0	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH12 0.5' (H240903-31)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.12</b>	0.200	02/27/2024	ND	2.09	105	2.00	0.864	GC-NC1
<b>Toluene*</b>	<b>12.8</b>	0.200	02/27/2024	ND	2.09	105	2.00	0.576	
<b>Ethylbenzene*</b>	<b>3.82</b>	0.200	02/27/2024	ND	2.16	108	2.00	0.421	
<b>Total Xylenes*</b>	<b>53.5</b>	0.600	02/27/2024	ND	6.39	106	6.00	0.578	
<b>Total BTEX</b>	<b>71.3</b>	1.20	02/27/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 166 % 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
<b>Chloride</b>	<b>2960</b>	16.0	02/27/2024	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
<b>GRO C6-C10*</b>	<b>1780</b>	10.0	02/26/2024	ND	208	104	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>6300</b>	10.0	02/26/2024	ND	207	104	200	2.61	
<b>EXT DRO &gt;C28-C36</b>	<b>439</b>	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 151 % 48.2-134

Surrogate: 1-Chlorooctadecane 159 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH12 2' (H240903-32)**

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	02/27/2024	ND	2.09	105	2.00	0.864	
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	0.576	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.16	108	2.00	0.421	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.39	106	6.00	0.578	
Total BTEX	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	02/27/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	26.1	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	34.4	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 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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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH12 3' (H240903-33)**

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	02/27/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.39	106	6.00	0.578		
Total BTEX	<0.300	0.300	02/27/2024	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	480	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 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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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH13 0.5' (H240903-34)**

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	02/27/2024	ND	2.09	105	2.00	0.864		
Toluene*	<0.050	0.050	02/27/2024	ND	2.09	105	2.00	0.576		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.16	108	2.00	0.421		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.39	106	6.00	0.578		
Total BTEx	<0.300	0.300	02/27/2024	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	64.0	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH13 1' (H240903-35)**

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	02/26/2024	ND	2.19	109	2.00	0.814		
Toluene*	<0.050	0.050	02/26/2024	ND	2.05	103	2.00	0.0468		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.02	101	2.00	2.24		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	5.92	98.7	6.00	3.01		
Total BTEX	<0.300	0.300	02/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH13 3' (H240903-36)**

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	02/26/2024	ND	2.19	109	2.00	0.814		
Toluene*	<0.050	0.050	02/26/2024	ND	2.05	103	2.00	0.0468		
Ethylbenzene*	<0.050	0.050	02/26/2024	ND	2.02	101	2.00	2.24		
Total Xylenes*	<0.150	0.150	02/26/2024	ND	5.92	98.7	6.00	3.01		
Total BTEX	<0.300	0.300	02/26/2024	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	256	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH14 0.5' (H240903-37)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>4.64</b>	0.500	02/27/2024	ND	2.19	109	2.00	0.814	GC-NC1
<b>Toluene*</b>	<b>50.5</b>	0.500	02/27/2024	ND	2.05	103	2.00	0.0468	
<b>Ethylbenzene*</b>	<b>4.58</b>	0.500	02/27/2024	ND	2.02	101	2.00	2.24	
<b>Total Xylenes*</b>	<b>123</b>	1.50	02/27/2024	ND	5.92	98.7	6.00	3.01	
<b>Total BTEx</b>	<b>182</b>	3.00	02/27/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 192 % 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
<b>Chloride</b>	<b>1600</b>	16.0	02/27/2024	ND	432	108	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
<b>GRO C6-C10*</b>	<b>13700</b>	100	02/27/2024	ND	208	104	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>12500</b>	100	02/27/2024	ND	207	104	200	2.61	
<b>EXT DRO &gt;C28-C36</b>	<b>1830</b>	100	02/27/2024	ND					

Surrogate: 1-Chlorooctane 583 % 48.2-134

Surrogate: 1-Chlorooctadecane 206 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH14 2' (H240903-38)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/27/2024	ND	2.19	109	2.00	0.814	
Toluene*	2.16	0.200	02/27/2024	ND	2.05	103	2.00	0.0468	
Ethylbenzene*	0.461	0.200	02/27/2024	ND	2.02	101	2.00	2.24	
Total Xylenes*	6.61	0.600	02/27/2024	ND	5.92	98.7	6.00	3.01	
Total BTEX	9.23	1.20	02/27/2024	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	496	16.0	02/27/2024	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*	396	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	2170	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 02/23/2024  
 Reported: 02/29/2024  
 Project Name: BTA ROJO 38 41 TANK BATTERY/WELL F  
 Project Number: 03C2012032/03C2012088  
 Project Location: NOT GIVEN

Sampling Date: 02/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: PH14 4' (H240903-39)**

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	02/26/2024	ND	2.19	109	2.00	0.814	
Toluene*	0.127	0.050	02/26/2024	ND	2.05	103	2.00	0.0468	
Ethylbenzene*	0.071	0.050	02/26/2024	ND	2.02	101	2.00	2.24	
Total Xylenes*	0.511	0.150	02/26/2024	ND	5.92	98.7	6.00	3.01	
Total BTEX	0.709	0.300	02/26/2024	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	224	16.0	02/27/2024	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*	10.8	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	327	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH15 0.5' (H240903-40)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.632	0.200	02/27/2024	ND	2.19	109	2.00	0.814	GC-NC1
Toluene*	13.1	0.200	02/27/2024	ND	2.05	103	2.00	0.0468	
Ethylbenzene*	3.99	0.200	02/27/2024	ND	2.02	101	2.00	2.24	
Total Xylenes*	54.3	0.600	02/27/2024	ND	5.92	98.7	6.00	3.01	
Total BTEX	72.0	1.20	02/27/2024	ND					GC-NC1

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	208	16.0	02/27/2024	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*	1810	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	3300	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	291	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH15 2' (H240903-41)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.435	0.050	02/27/2024	ND	2.19	109	2.00	0.814	GC-NC1
Toluene*	2.89	0.050	02/27/2024	ND	2.05	103	2.00	0.0468	
Ethylbenzene*	0.563	0.050	02/27/2024	ND	2.02	101	2.00	2.24	
Total Xylenes*	4.37	0.150	02/27/2024	ND	5.92	98.7	6.00	3.01	
Total BTEX	8.26	0.300	02/27/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	32.0	16.0	02/27/2024	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*	328	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	3470	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	438	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH15 4' (H240903-42)**

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	02/27/2024	ND	2.19	109	2.00	0.814		
Toluene*	<0.050	0.050	02/27/2024	ND	2.05	103	2.00	0.0468		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.02	101	2.00	2.24		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	5.92	98.7	6.00	3.01		
Total BTEX	<0.300	0.300	02/27/2024	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	48.0	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	208	104	200	1.09	
DRO >C10-C28*	42.3	10.0	02/26/2024	ND	207	104	200	2.61	
EXT DRO >C28-C36	27.2	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH16 0.5' (H240903-43)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.263</b>	0.050	02/27/2024	ND	2.19	109	2.00	0.814	GC-NC1
<b>Toluene*</b>	<b>3.48</b>	0.050	02/27/2024	ND	2.05	103	2.00	0.0468	
<b>Ethylbenzene*</b>	<b>0.595</b>	0.050	02/27/2024	ND	2.02	101	2.00	2.24	
<b>Total Xylenes*</b>	<b>11.2</b>	0.150	02/27/2024	ND	5.92	98.7	6.00	3.01	
<b>Total BTEX</b>	<b>15.6</b>	0.300	02/27/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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
<b>Chloride</b>	<b>64.0</b>	16.0	02/27/2024	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
<b>GRO C6-C10*</b>	<b>795</b>	10.0	02/26/2024	ND	208	104	200	1.09	
<b>DRO &gt;C10-C28*</b>	<b>1700</b>	10.0	02/26/2024	ND	207	104	200	2.61	
<b>EXT DRO &gt;C28-C36</b>	<b>169</b>	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH16 3' (H240903-44)**

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	02/27/2024	ND	2.19	109	2.00	0.814		
Toluene*	<0.050	0.050	02/27/2024	ND	2.05	103	2.00	0.0468		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.02	101	2.00	2.24		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	5.92	98.7	6.00	3.01		
Total BTEX	<0.300	0.300	02/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	32.0	16.0	02/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	190	94.8	200	1.13	
DRO >C10-C28*	34.7	10.0	02/26/2024	ND	184	91.8	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH16 4' (H240903-45)**

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	02/27/2024	ND	2.19	109	2.00	0.814	
Toluene*	<b>0.118</b>	0.050	02/27/2024	ND	2.05	103	2.00	0.0468	
Ethylbenzene*	<b>0.144</b>	0.050	02/27/2024	ND	2.02	101	2.00	2.24	
Total Xylenes*	<b>0.996</b>	0.150	02/27/2024	ND	5.92	98.7	6.00	3.01	
Total BTEX	<b>1.26</b>	0.300	02/27/2024	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	<b>48.0</b>	16.0	02/27/2024	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*	<b>86.6</b>	10.0	02/26/2024	ND	190	94.8	200	1.13	
DRO >C10-C28*	<b>673</b>	10.0	02/26/2024	ND	184	91.8	200	1.50	
EXT DRO >C28-C36	<b>95.0</b>	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH17 0.5' (H240903-46)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.377</b>	0.200	02/27/2024	ND	2.19	109	2.00	0.814	GC-NC1
<b>Toluene*</b>	<b>6.91</b>	0.200	02/27/2024	ND	2.05	103	2.00	0.0468	
<b>Ethylbenzene*</b>	<b>2.06</b>	0.200	02/27/2024	ND	2.02	101	2.00	2.24	
<b>Total Xylenes*</b>	<b>31.4</b>	0.600	02/27/2024	ND	5.92	98.7	6.00	3.01	
<b>Total BTEX</b>	<b>40.7</b>	1.20	02/27/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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
<b>Chloride</b>	<b>128</b>	16.0	02/27/2024	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
<b>GRO C6-C10*</b>	<b>939</b>	10.0	02/26/2024	ND	190	94.8	200	1.13	
<b>DRO &gt;C10-C28*</b>	<b>7660</b>	10.0	02/26/2024	ND	184	91.8	200	1.50	
<b>EXT DRO &gt;C28-C36</b>	<b>1090</b>	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	02/23/2024	Sampling Date:	02/22/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

**Sample ID: PH17 4' (H240903-47)**

BTEx 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	02/27/2024	ND	2.19	109	2.00	0.814	GC-NC
Toluene*	0.226	0.050	02/27/2024	ND	2.05	103	2.00	0.0468	GC-NC1
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.02	101	2.00	2.24	GC-NC
Total Xylenes*	0.859	0.150	02/27/2024	ND	5.92	98.7	6.00	3.01	GC-NC1
Total BTEx	1.08	0.300	02/27/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 187 % 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
<b>Chloride</b>	<b>272</b>	16.0	02/27/2024	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
<b>GRO C6-C10*</b>	<b>187</b>	10.0	02/26/2024	ND	190	94.8	200	1.13	
<b>DRO &gt;C10-C28*</b>	<b>3170</b>	10.0	02/26/2024	ND	184	91.8	200	1.50	
<b>EXT DRO &gt;C28-C36</b>	<b>430</b>	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 108 % 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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### 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.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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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: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 432-557-8895

Fax #:

Project #: 03C201203203C2012088

Project Owner:

Project Name: BTA Rojo 38 41 Tank Battery/Well Pad

Project Location:

Sample Name: Tracy Hillard

U-Cell Scaf. 11/14/14

FOR LAB USE ONLY

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE/COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

ANALYSIS REQUEST

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide email address:

h.greene@ensolum.com

REMARKS:

Incident #:

APP 2123555001

Turnaround Time:

Standard

RUSH

Thermometer ID #1134140

Correction Factor: -0.5°C

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Relinquished By:

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC						
Project Manager: Hadlie Green						
Address: 601 N Marientfeld Street, Suite 400						P.O.#:
City: Midland State: TX Zip: 79701						Company: BTA Oil Producers
Phone #: 432-557-8895 Fax #:						Attn: Kelton Beaird
Project #: 03C2012032/03C2012088 Project Owner:						Address:
Project Name: BTA Rojo 38 41 Tank Battery/Well Pad City:						State:
Project Location: Phone #:						Zip:
Sampler Name: Tracy Hillard Oriel Santillan						Fax #:
FOR LAB USE ONLY						
#2410503 Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV	SAMPLING
				GROUNDWATER		
				WASTEWATER		
			X	SOIL		
				OIL		
				SLUDGE		
				OTHER :		
				ACID/BASE:	CEN COOL	
				OTHER :		
				DATE	TIME	
PHD4	4'	G	I	2/20	1115	X TPH 8015 X BTX 8021 Chloride 4500
PHD5	0.5-	G	I	2/20	1125	
PHD5	4'-	G	I	2/20	1145	
PHD6	0.5-	G	I	2/20	1315	
PHD6	4'-	G	I	2/20	1325	
PHD7	0.5-	G	I	2/20	1335	
PHD7	a.-	G	I	2/20	1340	
PHD7	4'-	G	I	2/20	1400	
PHD8	0.5-	G	I	2/20	1155	

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Relinquished By: Date: 2/23/24 Received By: Verbal Result: Yes No Add'l Phone #:  
*[Signature]* Time: 9:47 All Results are emailed. Please provide Email address:  
marene@ensolum.com  
REMARKS: Incident #: APP212355001  
APP240085443  
API: 30-025-46147  
Turnaround Time: Standard Rush  
Thermometer ID #4349  
Correction Factor -0.5°C  
Cool Intact Yes No Sample Condition Observed Temp.: °C Corrected Temp.: °C  
Bacteria (only)  
Cool Intact Yes No

t Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N Marlenfeld Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 432-557-8895 Fax #:

Project #: 03C201203203C2012088 Project Owner:

Project Name: BTA Rojo 38 41 Tank Battery/Well Pad

Project Location:

Sampler Name: Tracy Hillard Date: 10/21/2024

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: BTA Oil Producers

Attn: Kelton Beaird

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Sample I.D. H240903

Depth (feet)

(G)RAB OR (C)OMP. # CONTAINERS  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :  
ACID/BASE:  
CEM COOL  
OTHER :

DATE TIME

TPH 8015  
BTEX 8021  
Chloride 4500

PH08	4'	G	1	X	10/20	1015	X	X											
PH09	0.5'	G	1		10/21	0928													
PH09	1'	G	1		10/21	0929													
PH09	4'	G	1		10/21	0933													
PH10	0.5'	G	1		10/21	0947													
PH10	1	G	1		10/21	0945													
PH10	4	G	1		10/21	0939													
PH11	0.5	G	1		10/21	1006													
PH11	1	G	1		10/21	1003													
PH11	4	G	1		10/21	0956													

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Relinquished By:

Date: 10/23/2024

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

Relinquished By:

Date: 10/23/2024

Received By:

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 10/23/2024

Received By:

REMARKS: Incident # : NAPP2123555001 NAPP24008544

Delivered By: (Circle One)

Observed Temp. °C 43

CHECKED BY: (Initials)

Turnaround Time: Standard ☒ Rush ☐

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition Cool Intact ☒ Yes ☐ No

Thermometer ID #131149

Corrosion Factor 0.5°C

Bacteria (only) Sample Condition Cool Intact ☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N Marientfield Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 432-557-8895 Fax #:

Project #: 03C2012032/03C2012088 Project Owner:

Project Name: BTA Rojo 38 41 Tank Battery/Well Pad

Project Location:

Sampler Name: Tracy Hillard Uricel Santillana

FOR LAB USE ONLY

Sample I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

# CONTAINERS

MATRIX  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :

ACID/BASE:  
ICE/COOL  
OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

BILL TO

P.O. #:

Company: BTA Oil Producers

Attn: Kelton Beard

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

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Relinquished By:

Date: 2/23/24

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

kyeene@ensolum.com

REMARKS: Incident #: NAPP2123555001/

API: 30-025-40247 NAPP21400854443

Relinquished By:

Date: 2/23/24

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

kyeene@ensolum.com

REMARKS: Incident #: NAPP2123555001/

API: 30-025-40247 NAPP21400854443

Delivered By: (Circle One)

Observed Temp. °C: 4.3

Sample Condition

CHECKED BY: (Initials)

Turnaround Time: Standard

Bacteria (only) Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Yes

Thermometer ID: #1140

Observed Temp. °C

CRMD000 R-12 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com



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

August 12, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROJO 38-41 TANK BATTERY / ROJO 38-41 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 08/06/24 16:29.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/06/2024	Sampling Date:	08/05/2024
Reported:	08/12/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032	Sample Received By:	Alyssa Parras
Project Location:	BTA - LEA CO.		

**Sample ID: FS 05A 5.5' (H244733-01)**

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	08/07/2024	ND	1.99	99.7	2.00	5.06	
Toluene*	<0.050	0.050	08/07/2024	ND	1.98	98.8	2.00	4.21	
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	2.03	101	2.00	3.89	
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.97	99.5	6.00	3.81	
Total BTEX	<0.300	0.300	08/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	08/08/2024	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	08/07/2024	ND	191	95.7	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/07/2024	ND	189	94.5	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	08/07/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/06/2024	Sampling Date:	08/06/2024
Reported:	08/12/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032	Sample Received By:	Alyssa Parras
Project Location:	BTA - LEA CO.		

**Sample ID: FS 10 5.5' (H244733-02)**

BTEx 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	08/07/2024	ND	1.99	99.7	2.00	5.06		
Toluene*	<0.050	0.050	08/07/2024	ND	1.98	98.8	2.00	4.21	GC-NC	
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	2.03	101	2.00	3.89	GC-NC	
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.97	99.5	6.00	3.81	GC-NC	
Total BTEX	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 191 % 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	08/08/2024	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*	67.1	10.0	08/07/2024	ND	191	95.7	200	1.34	
DRO >C10-C28*	373	10.0	08/07/2024	ND	189	94.5	200	1.18	
EXT DRO >C28-C36	131	10.0	08/07/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/06/2024	Sampling Date:	08/06/2024
Reported:	08/12/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032	Sample Received By:	Alyssa Parras
Project Location:	BTA - LEA CO.		

**Sample ID: FS 12 5.5' (H244733-03)**

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	08/07/2024	ND	1.99	99.7	2.00	5.06		
Toluene*	<0.050	0.050	08/07/2024	ND	1.98	98.8	2.00	4.21		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	2.03	101	2.00	3.89	GC-NC	
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.97	99.5	6.00	3.81	GC-NC	
Total BTEX	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/08/2024	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	08/07/2024	ND	191	95.7	200	1.34	
DRO >C10-C28*	662	10.0	08/07/2024	ND	189	94.5	200	1.18	
EXT DRO >C28-C36	152	10.0	08/07/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/06/2024	Sampling Date:	08/06/2024
Reported:	08/12/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032	Sample Received By:	Alyssa Parras
Project Location:	BTA - LEA CO.		

**Sample ID: FS 09A 6.5' (H244733-04)**

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	08/07/2024	ND	1.99	99.7	2.00	5.06	GC-NC	
Toluene*	<0.050	0.050	08/07/2024	ND	1.98	98.8	2.00	4.21		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	2.03	101	2.00	3.89		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.97	99.5	6.00	3.81		
Total BTEX	<0.300	0.300	08/07/2024	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	32.0	16.0	08/08/2024	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	08/07/2024	ND	191	95.7	200	1.34	
DRO >C10-C28*	149	10.0	08/07/2024	ND	189	94.5	200	1.18	
EXT DRO >C28-C36	23.4	10.0	08/07/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/06/2024	Sampling Date:	08/06/2024
Reported:	08/12/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032	Sample Received By:	Alyssa Parras
Project Location:	BTA - LEA CO.		

**Sample ID: FS 11 5.5' (H244733-05)**

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	08/07/2024	ND	1.99	99.7	2.00	5.06		
Toluene*	<0.050	0.050	08/07/2024	ND	1.98	98.8	2.00	4.21		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	2.03	101	2.00	3.89		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.97	99.5	6.00	3.81		
Total BTEX	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	08/08/2024	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	08/07/2024	ND	191	95.7	200	1.34	
DRO >C10-C28*	70.5	10.0	08/07/2024	ND	189	94.5	200	1.18	
EXT DRO >C28-C36	15.2	10.0	08/07/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/06/2024	Sampling Date:	08/06/2024
Reported:	08/12/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032	Sample Received By:	Alyssa Parras
Project Location:	BTA - LEA CO.		

**Sample ID: FS 13 5.5' (H244733-06)**

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	08/07/2024	ND	1.99	99.7	2.00	5.06		
Toluene*	<0.050	0.050	08/07/2024	ND	1.98	98.8	2.00	4.21		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	2.03	101	2.00	3.89		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.97	99.5	6.00	3.81		
Total BTEX	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/08/2024	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	08/07/2024	ND	191	95.7	200	1.34	
DRO >C10-C28*	18.4	10.0	08/07/2024	ND	189	94.5	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	08/07/2024	ND					

Surrogate: 1-Chlorooctane 100 % 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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### Notes and Definitions

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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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

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Hallie Green <b>Address:</b> 601 N. Marlenfield St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701				<b>P.O. #:</b> BTA 01 Producers <b>Company:</b> Ray Ramo's <b>Attn:</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
<b>Phone #:</b> 432-551-8895 <b>Fax #:</b> 432-012-0000 <b>Project #:</b> 03C2012032 <b>Project Owner:</b> BTA 01 Producers <b>Project Name:</b> R-010 38-41 West Pad <b>Project Location:</b> 32.08119, -103.50502				<b>Address:</b> 104 S PECOS ST <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b>																					
<b>Sampler Name:</b> Marianna O'Dell <b>Fax #:</b>				<b>FOR LAB USE ONLY</b>																					
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH	BTEX								
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :														ACID/BASE:	ICE / COOL
1244 T33	FS05A	5.5'	C	1										8/5/24	10:25	X	X	X							
	FS10	5.5'												8/10/24	9:25										
	FS12	5.5'													9:30										
	FS09A	19.5'													11:45										
	FS11	5.5'													12:20										
	FS13	5.5'													13:35										
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<b>Relinquished By:</b> [Signature]				<b>Date:</b> 8/10/24				<b>Received By:</b> [Signature]				<b>Date:</b> 8/10/24				<b>Turnaround Time:</b> 5 days				<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>					
<b>Relinquished By:</b> [Signature]				<b>Date:</b> 8/10/24				<b>Received By:</b> [Signature]				<b>Date:</b> 8/10/24				<b>Turnaround Time:</b> 5 days				<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>					
<b>REMARKS:</b> BTA Incident #: 11, N APP2123555001, N APP2400				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b>				<b>All Results are emailed. Please provide Email address:</b>				<b>Remarks:</b> BTA Incident #: 11, N APP2123555001, N APP2400				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b>				<b>All Results are emailed. Please provide Email address:</b>					
<b>Delivered By:</b> (Circle One)				<b>Observed Temp. °C</b>				<b>Sample Condition</b>				<b>CHECKED BY:</b> (Initials)				<b>Turnaround Time:</b> 5 days				<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>					
<b>Sampler - UPS - Bus - Other:</b>				<b>Corrected Temp. °C</b>				<b>Sample Condition</b>				<b>CHECKED BY:</b> (Initials)				<b>Turnaround Time:</b> 5 days				<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>					



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August 14, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BTA ROJO 38 41 TANK BATTERY/WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 08/08/24 13:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Tamara Oldaker
Project Location:	32.08719,-103.56502		

**Sample ID: FS 14 6.5' (H244785-01)**

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	08/08/2024	ND	2.13	107	2.00	1.13	GC-NC	
Toluene*	<0.050	0.050	08/08/2024	ND	2.12	106	2.00	0.466		
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.578		
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.38	106	6.00	0.0268		
Total BTX	<0.300	0.300	08/08/2024	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	08/09/2024	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	08/09/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	317	10.0	08/09/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	46.5	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Tamara Oldaker
Project Location:	32.08719,-103.56502		

**Sample ID: FS 15 4.5' (H244785-02)**

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	08/08/2024	ND	2.13	107	2.00	1.13	
Toluene*	<0.050	0.050	08/08/2024	ND	2.12	106	2.00	0.466	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.578	GC-NC
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.38	106	6.00	0.0268	
Total BTEX	<0.300	0.300	08/08/2024	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	272	16.0	08/09/2024	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	08/09/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	395	10.0	08/09/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	62.5	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	BTA ROJO 38 41 TANK BATTERY/WELL F	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Tamara Oldaker
Project Location:	32.08719,-103.56502		

**Sample ID: FS 16 4.5' (H244785-03)**

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	08/09/2024	ND	2.13	107	2.00	1.13	
Toluene*	<0.050	0.050	08/09/2024	ND	2.12	106	2.00	0.466	
Ethylbenzene*	<0.050	0.050	08/09/2024	ND	2.14	107	2.00	0.578	
Total Xylenes*	<0.150	0.150	08/09/2024	ND	6.38	106	6.00	0.0268	
Total BTEX	<0.300	0.300	08/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	16.0	16.0	08/09/2024	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	08/09/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	73.1	10.0	08/09/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	12.3	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 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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### 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.
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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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

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August 23, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 38-41 TANK BATTERY / ROJO 38-41 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 08/22/24 15:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: FS 02 A 3' (H245128-01)**

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	08/23/2024	ND	2.30	115	2.00	3.23	
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	507	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	94.6	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: FS 04 A 3' (H245128-02)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	167	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	18.2	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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





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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: FS 03 A 3' (H245128-03)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	832	16.0	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	15.4	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: FS 07 A 4.5' (H245128-04)**

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	08/23/2024	ND	2.30	115	2.00	3.23	
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SW 07 0-6.5' (H245128-05)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SW 05 0-3' (H245128-06)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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\*=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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SW 06 0-5.5' (H245128-07)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SW 10 0-6.5' (H245128-08)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	672	16.0	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: FS 08 A 4.5' (H245128-09)**

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	08/23/2024	ND	2.30	115	2.00	3.23	
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47	
Total BTEX	<0.300	0.300	08/23/2024	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	160	16.0	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: FS 17 3' (H245128-10)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: FS 18 3' (H245128-11)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	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	48.0	16.0	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SW 08 0-4.5' (H245128-12)**

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	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	512	16.0	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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



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**Analytical Results For:**

ENSOLUM  
HADLIE GREEN  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SW 09 0-5.5' (H245128-13)**

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	08/22/2024	ND	2.11	106	2.00	2.30		
Toluene*	<0.050	0.050	08/22/2024	ND	2.04	102	2.00	3.23		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.05	103	2.00	4.39		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.09	102	6.00	4.65		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	<16.0	16.0	08/23/2024	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	08/23/2024	ND	204	102	200	1.07	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	203	101	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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\*=Accredited Analyte

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



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Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND            Analyte NOT DETECTED at or above the reporting limit
- RPD           Relative Percent Difference
- \*\*            Samples not received at proper temperature of 6°C or below.
- \*\*\*           Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder".

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





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

August 26, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROJO 38-41 TANK BATTERY / ROJO 38-41 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 08/23/24 14:22.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032 / 03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO.		

**Sample ID: FS 01 3' (H245155-01)**

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	08/23/2024	ND	2.23	112	2.00	6.88	
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09	
Total BTX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	08/26/2024	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	08/23/2024	ND	220	110	200	3.50	
DRO >C10-C28*	67.3	10.0	08/23/2024	ND	215	107	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

ENSOLUM, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032 / 03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO.		

**Sample ID: SW 01 3' (H245155-02)**

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	08/23/2024	ND	2.23	112	2.00	6.88		
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	32.0	16.0	08/26/2024	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	08/23/2024	ND	220	110	200	3.50	
DRO >C10-C28*	21.4	10.0	08/23/2024	ND	215	107	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



---

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

---

### Notes and Definitions

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

---

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

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



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5



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

August 28, 2024

GARRETT GREEN  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: ROJO 38-41 TANK BATTERY / ROJO 38-41 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 13:28.

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:**

ENSOLUM, LLC  
GARRETT GREEN  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO.		

**Sample ID: SW - 11 0-6.5' (H245208-01)**

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	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTX	<0.300	0.300	08/27/2024	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	32.0	16.0	08/28/2024	ND	448	112	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	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 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:**

ENSOLUM, LLC  
GARRETT GREEN  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO.		

**Sample ID: FS 02B 4' (H245208-02)**

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	1.93	96.4	2.00	0.204		
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	08/28/2024	ND	448	112	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	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	18.1	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 68.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 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:**

ENSOLUM, LLC  
GARRETT GREEN  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO.		

**Sample ID: FS 03B 4' (H245208-03)**

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	08/27/2024	ND	1.93	96.4	2.00	0.204		
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14		
Total BTEX	<0.300	0.300	08/27/2024	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	32.0	16.0	08/28/2024	ND	448	112	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	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 68.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 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:**

ENSOLUM, LLC  
GARRETT GREEN  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	ROJO 38-41 TANK BATTERY / ROJO 38-4	Sampling Condition:	Cool & Intact
Project Number:	03C2012032/03C2012088	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO.		

**Sample ID: FS 04B (H245208-04)**

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	08/27/2024	ND	1.98	98.9	2.00	5.95	
Toluene*	<0.050	0.050	08/27/2024	ND	2.02	101	2.00	7.32	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.02	101	2.00	7.90	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.16	103	6.00	7.39	
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: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/28/2024	ND	448	112	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	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	35.2	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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]

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 395900

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 395900
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400854443
Incident Name	NAPP2400854443 ROJO 38-41 WELL PAD @ 30-025-46097
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-46097] ROJO 7811 34 27 FEDERAL #040H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROJO 38-41 WELL PAD
Date Release Discovered	01/07/2024
Surface Owner	Federal

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: Overflow - Tank, Pit, Etc.   Tank (Any)   Produced Water   Released: 88 BBL   Recovered: 80 BBL   Lost: 8 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)	The regulators to the supply gas from the #20 and #40 separators froze, causing the dumps to not operate. This sent excess fluid to the compressor tank, causing it to overflow.



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QUESTIONS, Page 2

Action 395900

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 395900
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Nature and Volume of Release (continued)	
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: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 10/25/2024
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QUESTIONS, Page 3

Action 395900

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 395900
	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 100 and 500 (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	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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)	5120
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	34440
GRO+DRO (EPA SW-846 Method 8015M)	30200
BTEX (EPA SW-846 Method 8021B or 8260B)	522
Benzene (EPA SW-846 Method 8021B or 8260B)	29.1

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	05/11/2024
On what date will (or did) the final sampling or liner inspection occur	08/27/2024
On what date will (or was) the remediation complete(d)	08/27/2024
What is the estimated surface area (in square feet) that will be reclaimed	20389
What is the estimated volume (in cubic yards) that will be reclaimed	2265
What is the estimated surface area (in square feet) that will be remediated	3558
What is the estimated volume (in cubic yards) that will be remediated	550

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 395900

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 395900
	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.)	<b>Yes</b>
Which OCD approved facility will be used for <b>off-site</b> disposal	<i>Not answered.</i>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	<i>Not answered.</i>
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	<i>Not answered.</i>
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	<b>Yes</b>
What is the name of the NMED facility	<b>OWL Landfill</b>
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<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: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 10/25/2024
<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 395900

QUESTIONS (continued)

Operator:  BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:  260297
	Action Number:  395900
	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 395900

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 395900
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	375720
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	4500

**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	3558
What was the total volume (cubic yards) remediated	550
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	3558
What was the total volume (in cubic yards) reclaimed	550
Summarize any additional remediation activities not included by answers (above)	N/A

*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: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 10/25/2024
--	---

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QUESTIONS, Page 7  
  
Action 395900

QUESTIONS (continued)

Operator:  BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:  260297
	Action Number:  395900
	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 395900

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 395900
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation closure report is approved. Please proceed to the reclamation plan for the site (19.15.29.13 NMAC).	3/4/2025