



### New Mexico Site Characterization

**REFERENCE**

C-141
C-141
C-141
C-141
NMOCD O&G Map

**SITE INFORMATION**

Site Name:	RGA #2 & #3 Battery
Coordinates:	32.300596, -104.05997
Incident Number:	napp2334153994
Land Owner:	Private
Site Elevation (ft):	2,995

**COMMENTS**

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**DTW INFORMATION**

Cross reference USGS Map, NMOCD Map, and NMOSE Database
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Closest Water Well/Soil Boring		2nd Closest Water Well/Soil Boring	
CLOSER		FALSE	
Name:	C 00154	Name:	321818104032101
Distance from Site (ft):	1,917	Distance from Site (ft):	1,992
Direction from Site:	South	Direction from Site:	Northeast
Elevation:	2,995	Elevation:	2,981
DTW (ft):	38	DTW (ft):	34.94
Total Depth (ft):	196	Total Depth (ft):	100
Date of most recent water level measurement:	1/8/2018	Date of most recent water level measurement:	2/9/1948
Coordinates:	32.295382,-103.059033	Coordinates:	32.30513,-104.05634
0 FALSE		14 feet lower in elevation than the Site	
<b>ESTIMATED DTW @ SITE:</b>			
<50'			

**COMMENTS**

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**CLOSEST SIGNIFICANT WATER SOURCE**

NMOCD O&G Map
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Type:	Riverine Habitat
Distance (ft):	236
Direction:	South

**SITE RECEPTORS**

C-141
NMOCD O&G Map
NMOCD O&G Map
OpenEnviroMap
NMOCD O&G Map
NMOCD O&G Map
OpenEnviroMap
National Wetlands Inventory
NMED Registered Mines Map
NMOCD O&G Map
NMOCD O&G Map
FEMA map
C-141

NO	Did this release impact groundwater or surface water?
YES	≤ 300 ft of a continuously flowing watercourse or any other significant watercourse?
NO	≤ 200 ft of any lakebed, sinkhole, or playa lake?
NO	≤ 300 ft of an occupied permanent residence, school, hospital, institution, or church?
NO	≤ 500 ft of a spring or a private water well used by < 5 houses for domestic or stock watering?
NO	≤ 1000 ft of any other fresh water well or spring?
NO	≤ Municipal boundaries or a defined municipal fresh water well field
NO	≤ 300 ft of a wetland?
NO	overlying a subsurface mine
NO	overlying unstable geology (HIGH KARST)?
Medium	karst potential
NO	in a 100-year floodplain?
NO	Did the release impact areas not on an exploration, development, production or storage site?

**Distance from Site (ft) / Comments**

236	
8,967	
9,026	
1,917	south
1,917	
9,026	
3,689	
6,095	
17,210	
114	

**NMOCD TABLE 1 CLOSURE CRITERIA**

**TPH: 100 mg/kg   Chlorides: 600 mg/kg**  
**FALSE**



September 5, 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  
RGA #2 & #3 Battery  
Incident Number nAPP2334153994  
Eddy 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, excavation, and soil sampling activities performed at the RGA #2 & #3 Battery (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a crude oil and produced water release at the Site. Based on field observations, excavation activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2334153994.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit N, Section 14, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.300596°, -104.059977°) and is associated with oil and gas exploration and production operations on private land owned by UFFIE Land Com.

On December 7, 2023, a circulating pump malfunctioned, resulting in the release of approximately 95 barrels (bbls) of crude oil and 12 bbls of produced water into the earthen containment. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 92 bbls of crude oil and 5 bbls of produced water were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (C-141) on December 20, 2023. The release was assigned Incident Number nAPP2334153994.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table 1, 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 desktop characterization are summarized below. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 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-00154, located approximately 0.6 miles south of the Site. The groundwater well has a reported depth to groundwater of 38 feet bgs and a total depth of 196 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The associated well records are included in Appendix A.

BTA Oil Producers, LLC  
Closure Request  
RGA #2 & #3 Battery



The closest continuously flowing or significant watercourse to the Site is an irrigation canal located approximately 236 feet south 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 (medium 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): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On December 18, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Eight assessment soil samples (SS01 through SS08) were collected within and around the release area, at a depth of approximately 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chlorides using Hach® chloride QuanTab® test strips. The release extent and 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 Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

Laboratory analytical results for assessment soil samples SS01 through SS04, collected within the release area, indicated TPH and chloride concentrations exceeded the Closure Criteria at the ground surface. Laboratory analytical results for assessment soil samples SS05 through SS08, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Vertical delineation activities and excavation activities appeared warranted to determine the depth of impacts and to address the elevated TPH and chloride concentrations observed.

## DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On January 12, 2024, Ensolum personnel were at the Site to complete delineation activities based on laboratory analytical results for assessment soil samples SS01 through SS04. Four boreholes (BH01 through BH04) were advanced via hand auger within the release extent. The delineation boreholes were advanced to depths ranging from 1-foot to 3 feet bgs due to auger refusal. Discrete delineation soil samples were collected from the boreholes at depths of 1-foot to 3 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures described above. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix

BTA Oil Producers, LLC  
Closure Request  
RGA #2 & #3 Battery



C. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included as Appendix B.

Laboratory analytical results for delineation soil samples BH01 through BH04, collected at depths ranging from 1-foot to 3 feet bgs within the release extent, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results, excavation activities were warranted. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

Between January and May 2024, BTA operations decommissioned and removed the tank battery to provide access to the impacted soil.

## EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between May 17, 2024, and July 30, 2024, Ensolum personnel were on Site to oversee excavation activities. Excavation activities were performed using a backhoe, hydrovacuum truck, hand shovels, and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 3 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 sidewalls of the excavation. 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. Composite soil samples FS01 and FS19 were collected from the floor of the excavation at a depth of 3 feet bgs. Composite soil samples SW01 through SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation soil samples FS01, FS02, FS05, FS09 through FS11, FS13, FS17, SW01, SW03, SW05 and SW06 indicated all COC concentrations were compliant with the most stringent Table 1 Closure Criteria. Ensolum personnel returned to the Site to do additional scraping on the excavation floor and extend sidewalls. The extended excavation soil samples indicated that all COC concentrations were in compliance with the Closure Criteria. Laboratory analytical results are summarized on Table 1 and laboratory analytical reports are included as Appendix D.

The aerial footprint of the excavation measured approximately 3,750 square feet. A total of 420 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal in Hobbs, New Mexico. The final remediation extent is presented on Figure 3.

## CLOSURE REQUEST

Delineation and excavation activities were conducted at the Site to address the December 2023, produced water and crude oil release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Closure Criteria. Additionally, the release was vertically and laterally delineated to the Closure Criteria. Based on laboratory analytical results, impacted soil exceeding the Site Closure Criteria has been excavated and no further remediation is required at this time.

Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater was determined to be less than 50 feet bgs within 0.5 miles of the Site and some sensitive receptors were identified near the release extent. As such, the Site was remediated according to the most stringent Table 1 Closure Criteria. BTA believes the remedial actions completed

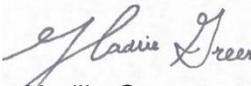
BTA Oil Producers, LLC  
Closure Request  
RGA #2 & #3 Battery



are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2334153994.

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

Sincerely,  
**Ensolum, LLC**



Hadlie Green  
Project Geologist



Tacoma Morrissey  
Associate Principal

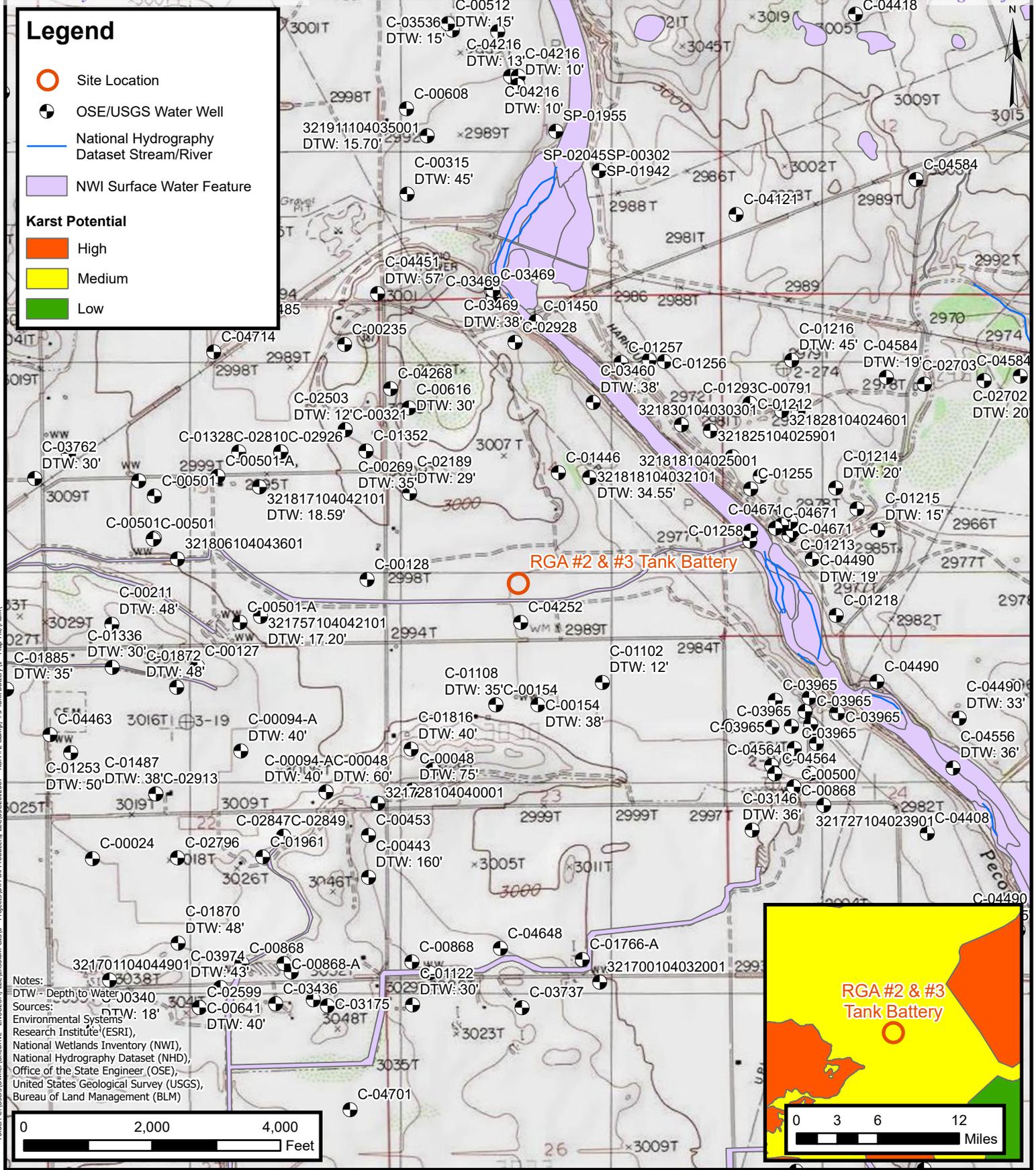
cc: Ray Ramos, BTA  
Nathan Sirgo, BTA  
UFFIE Land Com, Landowner

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation 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



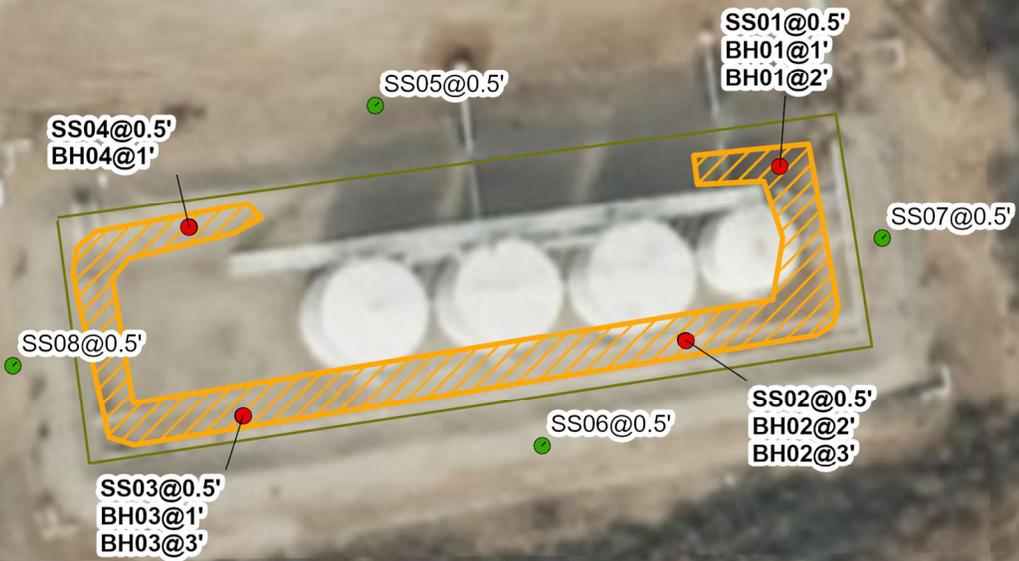
**Site Receptor Map**  
 BTA Oil Producers, LLC  
 RGA #2 & #3 Tank Battery  
 Incident Number: nAPP2334153994  
 Unit N, Sec 14, T23S, R28E  
 Eddy County, New Mexico

**FIGURE 1**

### Legend

- Assessment Sample Location in Compliance with Closure Criteria
- Assessment Sample Location with Concentrations Exceeding Closure Criteria
- Earthen Containment
- Release Extent

Folder: C:\Users\Zoe.Mims\OneDrive - ENSOLUM, LLC\Ensoium GIS0 - Projects\BTA Oil Producers, LLC\03\2012\87 - RGA #2 & #3 Tank Battery\1 - Map File\Main



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



Sources: Environmental Systems Research Institute (ESRI)

## Delineation Soil Sample Locations

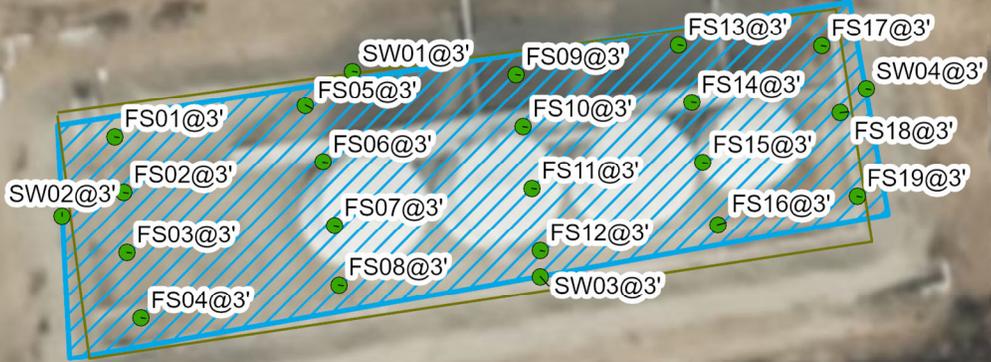
BTA Oil Producers, LLC  
 RGA #2 & #3 Tank Battery  
 Incident Number: nAPP2334153994  
 Unit N, Sec 14, T23S, R28E  
 Eddy County, New Mexico

**FIGURE**  
**2**

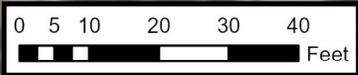


### Legend

- Excavation Sample Location in Compliance with Closure Criteria
- Earthen Containment
- Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Excavation Soil Sample Locations

BTA Oil Producers, LLC  
 RGA #2 & #3 Tank Battery  
 Incident Number: nAPP2334153994  
 Unit N, Sec 14, T23S, R28E  
 Eddy County, New Mexico

FIGURE

3



TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
RGA #2 & #3 Tank Battery  
BTA Oil Producers, LLC  
Eddy 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Assessment Soil Samples</b>										
SS01	12/18/2023	0.5	45.4	721	17,200	28,500	5,440	45,700	51,140	5,860
SS02	12/18/2023	0.5	5.62	413	9,810	21,200	3,930	31,010	34,940	2,480
SS03	12/18/2023	0.5	13.9	262	5,000	8,660	1,730	13,660	15,390	3,120
SS04	12/18/2023	0.5	15.0	288	6,740	13,700	2,540	20,440	22,980	2,400
SS05	12/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS06	12/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	12/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	12/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
<b>Delineation Soil Samples</b>										
BH01	01/12/2024	1	<0.050	2.34	71.4	776	141	847	988	80.0
BH01	01/12/2024	2	<0.050	5.76	165	1,350	268	1,515	1,783	112
BH02	01/12/2024	2	<0.050	3.24	55.2	315	111	370	481	1,410
BH02	01/12/2024	3	<0.050	0.454	10.8	128	20.7	139	160	2,440
BH03	01/12/2024	1	0.094	22.1	267	1,240	278	1,507	1,785	5,280
BH03	01/12/2024	3	0.052	15.3	96.3	604	117	700	817	3,320
BH04	01/12/2024	1	<0.050	2.10	125	3,230	787	3,355	4,142	224
<b>Excavation Floor Soil Samples</b>										
FS01	05/17/2024	3	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	208
FS02	05/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS03	05/17/2024	3	<0.050	<0.300	<10.0	598	199	598	797	224
FS03	06/21/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS04	05/17/2024	3	<0.050	<0.300	<10.0	1,570	508	1,570	2,078	304
FS04	06/21/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS05	05/17/2024	3	<0.050	<0.300	<10.0	12.5	<10.0	12.5	12.5	272
FS06	05/17/2024	3	<0.050	<0.300	<10.0	153	49.8	153	203	208
FS06	06/21/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS07	05/17/2024	3	<0.050	<0.300	<10.0	62.0	20.2	62.0	82.2	128
FS08	05/17/2024	3	<0.050	<0.300	<10.0	141	65.1	141	206	128
FS08	06/21/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS09	05/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS10	05/17/2024	3	<0.050	<0.300	<10.0	14.1	<10.0	14.1	14.1	352
FS11	05/17/2024	3	<0.050	<0.300	<10.0	13.7	<10.0	13.7	13.7	256



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
RGA #2 & #3 Tank Battery  
BTA Oil Producers, LLC  
Eddy 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
FS12	05/17/2024	3	<0.050	<0.300	<10.0	93.6	45.9	93.6	<b>140</b>	432
FS12	07/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS13	05/17/2024	3	<0.050	<0.300	<10.0	51.8	19.9	51.8	71.7	176
FS14	07/17/2024	3	<0.050	<0.300	<10.0	12.2	<10.0	12.2	12.2	<b>2,180</b>
FS14	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS15	07/17/2024	3	<0.050	<0.300	<10.0	79.6	10.1	79.6	89.7	<b>2,600</b>
FS15	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS16	07/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,100</b>
FS16	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS17	07/17/2024	3	<0.050	<0.300	<10.0	15.1	<10.0	15.1	15.1	512
FS18	07/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>864</b>
FS18	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS19	07/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>5,840</b>
FS19	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
<b>Excavation Sidewall Soil Samples</b>										
SW01	06/21/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW02	05/17/2024	0 - 3	<0.050	<0.300	<10.0	140	64.6	140	<b>205</b>	400
SW02	06/21/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW03	07/17/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW04	07/17/2024	0 - 3	<0.050	<0.300	<10.0	104	81.7	104	<b>186</b>	128
SW04	07/30/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW05	07/17/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW06	07/17/2024	0 - 3	<0.050	<0.300	<10.0	40.1	34.4	40.1	74.5	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



## APPENDIX A

### Referenced Well Records

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# 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 00154	4	2	1	23	23S	28E	588595	3573566*

<b>Driller License:</b> 24	<b>Driller Company:</b> BRININSTOOL, M.D.	
<b>Driller Name:</b> HOWARD P. HEMLER		
<b>Drill Start Date:</b> 08/15/1974	<b>Drill Finish Date:</b> 08/20/1974	<b>Plug Date:</b>
<b>Log File Date:</b> 02/11/1975	<b>PCW Rev Date:</b> 03/03/1975	<b>Source:</b> Shallow
<b>Pump Type:</b> TURBIN	<b>Pipe Discharge Size:</b> 8	<b>Estimated Yield:</b> 2500 GPM
<b>Casing Size:</b> 18.00	<b>Depth Well:</b> 196 feet	<b>Depth Water:</b> 38 feet

Water Bearing Stratifications:	Top	Bottom	Description
	40	50	Sandstone/Gravel/Conglomerate
	80	110	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	80	110

<b>Meter Number:</b> 4960	<b>Meter Make:</b> MCCROMETER
<b>Meter Serial Number:</b> 02-8-03200	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 3	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Acre-Feet	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Quarterly

**Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
09/17/2001	2001	4	A	RPT		3.653
09/17/2001	2001	0	A	RPT		0
09/27/2001	2001	8	A	ms		4.105
03/26/2002	2002	17	A	MB		9.350
09/03/2002	2002	74	A	ms		56.750
04/01/2003	2002	93	A	MS		19.374
06/03/2003	2003	138	A	ms		44.616
08/20/2003	2003	199	A	ab		61.646
10/27/2003	2003	222	A	TW		22.958
01/06/2004	2003	222	A	ab		0
05/12/2004	2004	243	A	TW		20.796
07/14/2004	2004	243	A	ms		0
10/20/2004	2004	249	A	TW		5.349
01/03/2005	2004	249	A	TW		0
03/30/2005	2005	249	A	JW		0
07/06/2005	2005	249	A	JW		0
01/05/2006	2005	249	A	TW		0
04/05/2006	2006	249	A	tw		0
07/06/2006	2006	249	A	tw		0

01/04/2007	2006	249	A	tw	0
04/27/2007	2007	249	A	tw	0
04/28/2007	2007	251	A	tw	0
07/03/2007	2007	251	A	tw	0
10/10/2007	2007	251	A	tw	0
01/03/2008	2007	251	A	tw	0
04/24/2008	2008	251	A	tw	0
07/16/2008	2008	253	A	tw	1.264
10/02/2008	2008	283	A	tw	30.342
01/15/2009	2008	283	A	tw	0
04/22/2009	2009	329	A	tw	46.004
06/07/2009	2009	391	A	tw	61.893
01/06/2010	2009	431	A	tw	40.040
06/02/2010	2010	482	A	tw	50.525
01/12/2011	2010	510	A	tw	28.660
01/23/2012	2011	839	A	tw	329.303
03/12/2012	2012	840	A	tw	0.112
07/02/2012	2012	968	A	tw	128.652
02/12/2013	2012	88	R	tw	Meter Rollover 119.870
11/05/2013	2013	378	A	tw	290.001
06/10/2014	2014	378	A	tw	0
01/27/2015	2014	378	A	tw	0
01/28/2015	2015	0	A	tw	0
07/24/2015	2015	0	A	tw	0.360
02/27/2016	2016	0	A	tw	0
08/19/2016	2016	0	A	tw	0
12/28/2016	2016	0	A	tw	0
07/20/2017	2017	0	A	tw	0
01/08/2018	2017	0	A	tw	0

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<sup>x</sup> **YTD Meter Amounts:		
Year	Amount	
2001	7.758	
2002	85.474	
2003	129.220	
2004	26.145	
2005	0	
2006	0	
2007	0	
2008	31.606	
2009	147.937	
2010	79.185	
2011	329.303	
2012	248.634	
2013	290.001	
2014	0	
2015	0.360	
2016	0	
2017	0	

---

<sup>x</sup>\*UTM location was derived from PLSS - see Help



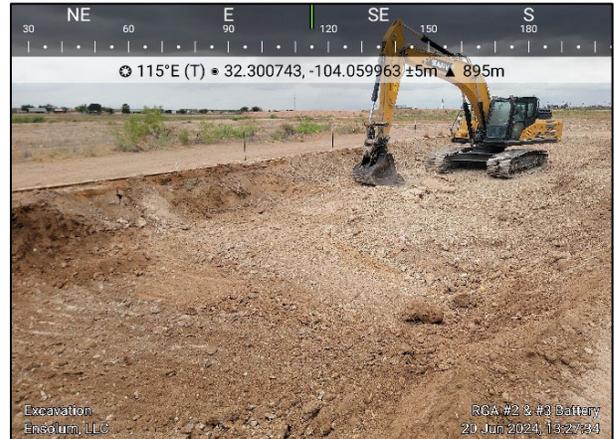
APPENDIX B  
Photographic Log

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**Photographic Log**  
BTA Oil Producers  
RGA #2 & #3 Battery  
nAPP2334153994



Photograph: 5                      Date: 5/17/2024  
Description: Excavation activities  
View: West

Photograph: 6                      Date: 6/20/2024  
Description: Excavation activities  
View: Southeast



Photograph: 7                      Date: 7/17/2024  
Description: Excavation activities  
View: Southwest

Photograph: 8                      Date: 7/30/2024  
Description: Final excavation extent  
View: West



## APPENDIX C

### Lithologic Soil Sampling Logs

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					Sample Name: BH01		Date: 1/12/2024	
					Site Name: RGA #2 & #3 Battery			
					Incident Number: nAPP2334153994			
					Job Number: 03C2012087			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: SK		Method: Hand Auger	
Coordinates: 32.300636, -104.059850					Hole Diameter: 4"		Total Depth: 2'	
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. A 40% correction factor was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	10,236	2,048	Y	SS01	0.5	0	CCHE	(0-2') CALICHE, tan, fine grained, poorly graded odor present
D	<196	300.7	N	BH01	1	1		
D	<196	218.4	N	BH01	2	2		
Total Depth @ 2 feet bgs - Auger Refusal								

		Sample Name: BH02		Date: 1/12/2024				
		Site Name: RGA #2 & #3 Battery						
		Incident Number: nAPP2334153994						
		Job Number: 03C2012087						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.300568, -104.059895			Logged By: SK		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 3'			
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. A 40% correction factor was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	3,035	1,531	Y	SS02	0.5	0	CCHE	(0-3') CALICHE, tan, fine grained, poorly graded odor present
D	1,025	581	N		1	1		
D	1,299	624	N	BH02	2	2		
D	1742	570	N	BH02	3	3		
						Total Depth @ 3 feet bgs - Auger Refusal		

		Sample Name: BH03		Date: 1/12/2024				
		Site Name: RGA #2 & #3 Battery						
		Incident Number: nAPP2334153994						
		Job Number: 03C2012087						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.300539, -104.060100			Logged By: SK		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 3'			
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. A 40% correction factor was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	3,483	1,531	Y	SS03	0.5	0	CCHE	(0-3') CALICHE, tan, fine grained, poorly graded odor present
D	>3517	747	N	BH03	1	1		
D	3259	592	N		2	2		
D	>3517	566	N	BH03	3	3		
						Total Depth @ 3 feet bgs - Auger Refusal		

		Sample Name: BH04		Date: 1/12/2024				
		Site Name: RGA #2 & #3 Battery						
		Incident Number: nAPP2334153994						
		Job Number: 03C2012087						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.300614, -104.060124			Logged By: SK		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 1'			
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. A 40% correction factor was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	2,637	2,143	Y	SS04	0.5	0	CCHE	(0-1') CALICHE, tan, fine grained, poorly graded odor present
D	235	76.4	N	BH04	1	1		
Total Depth @ 1-foot bgs - Auger Refusal								



## 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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December 21, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 14:40.

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, flowing "C" at the beginning.

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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 01 0.5' (H236742-01)**

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>45.4</b>	5.00	12/20/2023	ND	2.07	103	2.00	0.966	QM-07, QR-03
<b>Toluene*</b>	<b>259</b>	5.00	12/20/2023	ND	2.16	108	2.00	2.95	QM-07, QR-03
<b>Ethylbenzene*</b>	<b>78.2</b>	5.00	12/20/2023	ND	2.13	107	2.00	3.22	QM-07, QR-03
<b>Total Xylenes*</b>	<b>338</b>	15.0	12/20/2023	ND	6.42	107	6.00	3.67	QM-07, QR-03
<b>Total BTEX</b>	<b>721</b>	30.0	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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
<b>Chloride</b>	<b>5860</b>	16.0	12/20/2023	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>17200</b>	50.0	12/20/2023	ND	180	90.0	200	10.5		
<b>DRO &gt;C10-C28*</b>	<b>28500</b>	50.0	12/20/2023	ND	189	94.7	200	13.8		
<b>EXT DRO &gt;C28-C36</b>	<b>5440</b>	50.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 700 % 48.2-134

Surrogate: 1-Chlorooctadecane 514 % 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  
 HADLIE GREEN  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 02 0.5' (H236742-02)**

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>5.62</b>	5.00	12/20/2023	ND	2.07	103	2.00	0.966	
<b>Toluene*</b>	<b>104</b>	5.00	12/20/2023	ND	2.16	108	2.00	2.95	
<b>Ethylbenzene*</b>	<b>53.8</b>	5.00	12/20/2023	ND	2.13	107	2.00	3.22	
<b>Total Xylenes*</b>	<b>250</b>	15.0	12/20/2023	ND	6.42	107	6.00	3.67	
<b>Total BTEX</b>	<b>413</b>	30.0	12/20/2023	ND					

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
<b>Chloride</b>	<b>2480</b>	16.0	12/20/2023	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>9810</b>	50.0	12/20/2023	ND	180	90.0	200	10.5		
<b>DRO &gt;C10-C28*</b>	<b>21200</b>	50.0	12/20/2023	ND	189	94.7	200	13.8		
<b>EXT DRO &gt;C28-C36</b>	<b>3930</b>	50.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 551 % 48.2-134

Surrogate: 1-Chlorooctadecane 379 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 03 0.5' (H236742-03)**

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>13.9</b>	5.00	12/20/2023	ND	2.07	103	2.00	0.966	
<b>Toluene*</b>	<b>90.4</b>	5.00	12/20/2023	ND	2.16	108	2.00	2.95	
<b>Ethylbenzene*</b>	<b>29.3</b>	5.00	12/20/2023	ND	2.13	107	2.00	3.22	
<b>Total Xylenes*</b>	<b>129</b>	15.0	12/20/2023	ND	6.42	107	6.00	3.67	
<b>Total BTEX</b>	<b>262</b>	30.0	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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
<b>Chloride</b>	<b>3120</b>	16.0	12/20/2023	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>5000</b>	50.0	12/20/2023	ND	180	90.0	200	10.5		
<b>DRO &gt;C10-C28*</b>	<b>8660</b>	50.0	12/20/2023	ND	189	94.7	200	13.8		
<b>EXT DRO &gt;C28-C36</b>	<b>1730</b>	50.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 266 % 48.2-134

Surrogate: 1-Chlorooctadecane 182 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 04 0.5' (H236742-04)**

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>15.0</b>	5.00	12/20/2023	ND	2.07	103	2.00	0.966	
<b>Toluene*</b>	<b>95.7</b>	5.00	12/20/2023	ND	2.16	108	2.00	2.95	
<b>Ethylbenzene*</b>	<b>32.6</b>	5.00	12/20/2023	ND	2.13	107	2.00	3.22	
<b>Total Xylenes*</b>	<b>145</b>	15.0	12/20/2023	ND	6.42	107	6.00	3.67	
<b>Total BTEX</b>	<b>288</b>	30.0	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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
<b>Chloride</b>	<b>2400</b>	16.0	12/20/2023	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>6740</b>	50.0	12/20/2023	ND	180	90.0	200	10.5		
<b>DRO &gt;C10-C28*</b>	<b>13700</b>	50.0	12/20/2023	ND	189	94.7	200	13.8		
<b>EXT DRO &gt;C28-C36</b>	<b>2540</b>	50.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 405 % 48.2-134

Surrogate: 1-Chlorooctadecane 256 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 05 0.5' (H236742-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87		
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 06 0.5' (H236742-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87		
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 07 0.5' (H236742-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966	
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67	
Total BTEX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA		

**Sample ID: SS 08 0.5' (H236742-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
<b>Toluene*</b>	<b>0.098</b>	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	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	
<b>Chloride</b>	<b>16.0</b>	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87		
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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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.
- 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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*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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Hadlie Green  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 432 557-8895 Fax #:   
 Project #: 03C2012087 Project Owner: BTA  
 Project Name: RGA #2 & #3 Battery  
 Project Location:   
 Sampler Name: Connor Whitman  
 P.O. #:   
 Company: BTA Oil  
 Attn: Kelton Beard  
 Address: 104 S Pecos St  
 City: Midland  
 State: TX Zip: 79701  
 Phone #:   
 Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chloride
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H236742	SS01	0.5'	G	1								12/18/23	840	/	/	/
	SS02			1									845	/	/	/
	SS03			1									855	/	/	/
	SS04			1									905	/	/	/
	SS05			1									920	/	/	/
	SS06			1									925	/	/	/
	SS07			1									930	/	/	/
	SS08			1									935	/	/	/

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Relinquished By: *CHH*  
 Date: 8/19/23  
 Time: 1440  
 Received By: *S. Keene*  
 Date:   
 Time:   
 Verbal Result:  Yes  No  Add'l Phone #:  
 All Results are emailed. Please provide Email address: *Hyreen@Ensolum.com*  
 REMARKS:   
 Turnaround Time:   
 Standard  Rush   
 Bacteria (only)    
 Cool Intact    
 Sample Condition    
 Observed Temp. °C   
 Corrected Temp. °C

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other:  
 Observed Temp. °C: *2.0*  
 Corrected Temp. °C:   
 Sample Condition:   
 Cool Intact:   
 Checked By: *SKC*  
 Turnaround Time:   
 Standard  Rush   
 Bacteria (only)    
 Cool Intact    
 Sample Condition    
 Observed Temp. °C   
 Corrected Temp. °C



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January 17, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/12/24 14:05.

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, 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:	01/12/2024	Sampling Date:	01/12/2024
Reported:	01/17/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO		

**Sample ID: BH 01 1' (H240149-01)**

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	01/13/2024	ND	2.21	111	2.00	3.10	
<b>Toluene*</b>	<b>0.151</b>	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
<b>Ethylbenzene*</b>	<b>0.361</b>	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
<b>Total Xylenes*</b>	<b>1.83</b>	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
<b>Total BTEX</b>	<b>2.34</b>	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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>80.0</b>	16.0	01/15/2024	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>71.4</b>	10.0	01/15/2024	ND	180	90.1	200	3.15	
<b>DRO &gt;C10-C28*</b>	<b>776</b>	10.0	01/15/2024	ND	190	95.1	200	1.47	
<b>EXT DRO &gt;C28-C36</b>	<b>141</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/12/2024	Sampling Date:	01/12/2024
Reported:	01/17/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO		

**Sample ID: BH 01 2' (H240149-02)**

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	01/13/2024	ND	2.21	111	2.00	3.10	
<b>Toluene*</b>	<b>0.420</b>	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
<b>Ethylbenzene*</b>	<b>0.906</b>	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
<b>Total Xylenes*</b>	<b>4.43</b>	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
<b>Total BTEX</b>	<b>5.76</b>	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 164 % 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>112</b>	16.0	01/15/2024	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>165</b>	10.0	01/15/2024	ND	180	90.1	200	3.15	
<b>DRO &gt;C10-C28*</b>	<b>1350</b>	10.0	01/15/2024	ND	190	95.1	200	1.47	
<b>EXT DRO &gt;C28-C36</b>	<b>268</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 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:	01/12/2024	Sampling Date:	01/12/2024
Reported:	01/17/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO		

**Sample ID: BH 02 2' (H240149-03)**

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	01/13/2024	ND	2.21	111	2.00	3.10	
<b>Toluene*</b>	<b>0.372</b>	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
<b>Ethylbenzene*</b>	<b>0.520</b>	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
<b>Total Xylenes*</b>	<b>2.35</b>	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
<b>Total BTEX</b>	<b>3.24</b>	0.300	01/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1410</b>	16.0	01/15/2024	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>55.2</b>	10.0	01/15/2024	ND	180	90.1	200	3.15	
<b>DRO &gt;C10-C28*</b>	<b>315</b>	10.0	01/15/2024	ND	190	95.1	200	1.47	
<b>EXT DRO &gt;C28-C36</b>	<b>111</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 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, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	01/12/2024	Sampling Date:	01/12/2024
Reported:	01/17/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO		

**Sample ID: BH 02 3' (H240149-04)**

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	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
<b>Ethylbenzene*</b>	<b>0.071</b>	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
<b>Total Xylenes*</b>	<b>0.383</b>	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
<b>Total BTEX</b>	<b>0.454</b>	0.300	01/13/2024	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
<b>Chloride</b>	<b>2440</b>	16.0	01/15/2024	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>10.8</b>	10.0	01/15/2024	ND	180	90.1	200	3.15	
<b>DRO &gt;C10-C28*</b>	<b>128</b>	10.0	01/15/2024	ND	190	95.1	200	1.47	
<b>EXT DRO &gt;C28-C36</b>	<b>20.7</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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:	01/12/2024	Sampling Date:	01/12/2024
Reported:	01/17/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO		

**Sample ID: BH 03 1' (H240149-05)**

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>0.094</b>	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
<b>Toluene*</b>	<b>4.03</b>	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
<b>Ethylbenzene*</b>	<b>3.03</b>	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
<b>Total Xylenes*</b>	<b>14.9</b>	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
<b>Total BTEX</b>	<b>22.1</b>	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 215 % 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>5280</b>	16.0	01/15/2024	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>267</b>	10.0	01/15/2024	ND	180	90.1	200	3.15	
<b>DRO &gt;C10-C28*</b>	<b>1240</b>	10.0	01/15/2024	ND	190	95.1	200	1.47	
<b>EXT DRO &gt;C28-C36</b>	<b>278</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 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, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	01/12/2024	Sampling Date:	01/12/2024
Reported:	01/17/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO		

**Sample ID: BH 03 3' (H240149-06)**

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>0.052</b>	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
<b>Toluene*</b>	<b>2.46</b>	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
<b>Ethylbenzene*</b>	<b>2.25</b>	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
<b>Total Xylenes*</b>	<b>10.5</b>	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
<b>Total BTEX</b>	<b>15.3</b>	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 181 % 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>3320</b>	16.0	01/15/2024	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>96.3</b>	10.0	01/15/2024	ND	180	90.1	200	3.15	
<b>DRO &gt;C10-C28*</b>	<b>604</b>	10.0	01/15/2024	ND	190	95.1	200	1.47	
<b>EXT DRO &gt;C28-C36</b>	<b>117</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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:	01/12/2024	Sampling Date:	01/12/2024
Reported:	01/17/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO		

**Sample ID: BH 04 1' (H240149-07)**

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	01/13/2024	ND	2.21	111	2.00	3.10	
<b>Toluene*</b>	<b>0.074</b>	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
<b>Ethylbenzene*</b>	<b>0.301</b>	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
<b>Total Xylenes*</b>	<b>1.72</b>	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
<b>Total BTEX</b>	<b>2.10</b>	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 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>224</b>	16.0	01/15/2024	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>125</b>	10.0	01/15/2024	ND	180	90.1	200	3.15	
<b>DRO &gt;C10-C28*</b>	<b>3230</b>	10.0	01/15/2024	ND	190	95.1	200	1.47	
<b>EXT DRO &gt;C28-C36</b>	<b>787</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Maryland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476  
Company Name: Ensolum, LLC

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**Project Manager:** Hadlie Green  
**Address:** 691 N Mariensfeld St. STE 402  
**City:** Midland TX **State:** TX **Zip:** 79701  
**Phone #:** 432-557-8845 **Fax #:**  
**Project #:** 03C2012087 **Project Owner:**  
**Project Name:** R5A #2 & #3 Bafem  
**Project Location:** Faddy County  
**Sampler Name:** SK  
**FOR LAB USE ONLY**

**BILL TO**  
**P.O. #:**  
**Company:** BTA O.I. Products  
**Attn:** Kellen Bervind  
**Address:** 104 S Ross St.  
**City:** Midland  
**State:** TX **Zip:** 79701  
**Phone #:**  
**Fax #:**

**ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chloride
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HA40149	BH 01	1	C	1	X							11/21/24	1054	X	X	X
	BH 02	2										1054				
	BH 03	3										1130				
	BH 04	3										1132				
	BH 05	3										1151				
	BH 06	3										1158				
	BH 07	3										1158				
	BH 08	3										1158				
	BH 09	3										1158				
	BH 10	3										1158				
	BH 11	3										1158				
	BH 12	3										1158				
	BH 13	3										1158				
	BH 14	3										1158				
	BH 15	3										1158				
	BH 16	3										1158				
	BH 17	3										1158				
	BH 18	3										1158				
	BH 19	3										1158				
	BH 20	3										1158				

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**Relinquished By:** [Signature]  
**Date:** 10-24  
**Time:** 1405  
**Received By:** Stockinguey  
**Date:**  
**Time:**

**Delivered By: (Circle One)**  
 Sampler - UPS - Bus - Other:  
**Observed Temp. °C:** 4.9c  
**Corrected Temp. °C:**  
**Sample Condition:** Cool Intact  
 Yes  No  
**Checked By:** [Signature]  
**Turnaround Time:**  
**Standard RUSH:**   
**Bacteria (only) Sample Condition:** Cool Intact  
 Yes  No  
**Corrected Temp. °C:**



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May 24, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/20/24 16:21.

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, flowing style.

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:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 01 3' (H242770-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/22/2024	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
<b>Chloride</b>	<b>208</b>	16.0	05/21/2024	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	05/21/2024	ND	185	92.3	200	0.522	
<b>DRO &gt;C10-C28*</b>	<b>10.6</b>	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.6 % 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:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 02 3' (H242770-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/21/2024	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	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 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:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 03 3' (H242770-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	224	16.0	05/21/2024	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	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	598	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	199	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 04 3' (H242770-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 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
<b>Chloride</b>	<b>304</b>	16.0	05/21/2024	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	05/21/2024	ND	185	92.3	200	0.522	
<b>DRO &gt;C10-C28*</b>	<b>1570</b>	10.0	05/21/2024	ND	178	89.2	200	0.113	
<b>EXT DRO &gt;C28-C36</b>	<b>508</b>	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 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:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 05 3' (H242770-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 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	<b>272</b>	16.0	05/21/2024	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	05/21/2024	ND	191	95.4	200	1.86	
<b>DRO &gt;C10-C28*</b>	<b>12.5</b>	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 06 3' (H242770-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/21/2024	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	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	153	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	49.8	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 07 3' (H242770-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 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
<b>Chloride</b>	<b>128</b>	16.0	05/21/2024	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	05/21/2024	ND	191	95.4	200	1.86	
<b>DRO &gt;C10-C28*</b>	<b>62.0</b>	10.0	05/21/2024	ND	188	94.2	200	1.44	
<b>EXT DRO &gt;C28-C36</b>	<b>20.2</b>	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 08 3' (H242770-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 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
<b>Chloride</b>	<b>128</b>	16.0	05/21/2024	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	05/21/2024	ND	191	95.4	200	1.86	
<b>DRO &gt;C10-C28*</b>	<b>141</b>	10.0	05/21/2024	ND	188	94.2	200	1.44	
<b>EXT DRO &gt;C28-C36</b>	<b>65.1</b>	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 09 3' (H242770-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/21/2024	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	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 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:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 10 3' (H242770-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 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	05/21/2024	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	05/21/2024	ND	191	95.4	200	1.86	
<b>DRO &gt;C10-C28*</b>	<b>14.1</b>	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 11 3' (H242770-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 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
<b>Chloride</b>	<b>256</b>	16.0	05/21/2024	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	05/21/2024	ND	191	95.4	200	1.86	
<b>DRO &gt;C10-C28*</b>	<b>13.7</b>	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 12 3' (H242770-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>432</b>	16.0	05/21/2024	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	05/21/2024	ND	191	95.4	200	1.86	
<b>DRO &gt;C10-C28*</b>	<b>93.6</b>	10.0	05/21/2024	ND	188	94.2	200	1.44	
<b>EXT DRO &gt;C28-C36</b>	<b>45.9</b>	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 13 3' (H242770-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	05/21/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
<b>DRO &gt;C10-C28*</b>	<b>51.8</b>	10.0	05/21/2024	ND	188	94.2	200	1.44	
<b>EXT DRO &gt;C28-C36</b>	<b>19.9</b>	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 106 % 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  
 HADLIE GREEN  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	05/20/2024	Sampling Date:	05/17/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: SW 02 0 - 3' (H242770-14)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 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
<b>Chloride</b>	<b>400</b>	16.0	05/21/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
<b>DRO &gt;C10-C28*</b>	<b>140</b>	10.0	05/21/2024	ND	188	94.2	200	1.44	
<b>EXT DRO &gt;C28-C36</b>	<b>64.6</b>	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N. Marland St. STE 400

City: Midland State: TX Zip: 79701

Phone #: (432)557-8895

Project #: 03C2012087

Project Location: 32.300596, -104.05997

Sampler Name: Kaoru Shimada

Project Owner: Email: hgreen@ensolum.com

Project Name: RGA #2 &#3 Battery

State: Zip:

Phone #: Email:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					OTHER :	ACID/BASE:	ICE / COOL
H012720	F501	3		1								5/11/24	9:28	X	X	X
	F502	3		1								9:25	9:25	X	X	X
	F503	3		1								11:23	11:23	X	X	X
	F504	3		1								11:24	11:24	X	X	X
	F505	3		1								11:29	11:32	X	X	X
	F506	3		1								10:39	10:39	X	X	X
	F507	3		1								10:40	10:40	X	X	X
	F508	3		1												
	F509	3		1												
	F510	3		1												

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Relinquished By: Kaoru Shimada  
Date: 5/20/24  
Time: 10:19

Received By: [Signature]  
Date: 5/20/24  
Time: 11:24

Delivered By: (Circle One)  
Sample - UPS - Bus - Other: [Initials]

Observed Temp. °C: 40°C  
Corrected Temp. °C: [Blank]

Sample Condition: Cool Intact  Yes  No

Checked By: [Initials]

Turnaround Time: Standard  Observed Temp. °C: [Blank]

Thermometer ID: #443 AP  
Correction Factor: 45°C

Remarks: Paykey/FENONAFE: INCLON # : NAPP 2334153914

Verbal Result:  Yes  No

Add'l Phone #: [Blank]

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

FORM-006 R. 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.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. Marland St. STE 400

City: Midland State: TX Zip: 79701

Phone #: (432)557-8895

Email: hgreen@ensolum.com

Project #: 03C2012087

Project Owner:

Project Name: RGA #2 &#3 Battery

Project Location: 32.300596, -104.05997

Sampler Name: Kaoru Shimada

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #: Company: BTA Oil Producers LLC

Attn: Ray Ramos

Address:

City:

State: Zip:

Phone #:

Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H242-176	E11	3	C1	1								5/17/24	1042	X	X	X	
	E12	3	C1	1								5/17/24	1044	X	X	X	
	H15	3	C1	1								5/17/24	1046	X	X	X	
	SM02	0-3	C1	1								5/17/24	1152	X	X	X	

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Refill/Quished By: Kaoru Shimada

Received By: [Signature]

Verbal Result:  Yes  No

Delivered By: (Circle One) Sample - UPS - Bus - Other:  Other

Observed Temp. °C: 44.0 Corrected Temp. °C: 44.0

Sample Condition:  Cool  Intact

Checked By: (Initials) AP

Thermometer ID: 100 Correction Factor: 0.0

Turnaround Time:  Rush  Standard

Remarks: INCIDENT # NAPP234153994

FORM-006 R 3.2 10/07/21

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July 19, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/18/24 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/19/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 12 3' (H244312-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	07/18/2024	ND	2.19	109	2.00	0.843	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.25	113	2.00	0.508	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.00	117	6.00	0.527	
Total BTEX	<0.300	0.300	07/18/2024	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	160	16.0	07/19/2024	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	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 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: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 14 3' (H244312-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	07/18/2024	ND	2.19	109	2.00	0.843	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.25	113	2.00	0.508	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.00	117	6.00	0.527	
Total BTEX	<0.300	0.300	07/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2180</b>	16.0	07/19/2024	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	07/18/2024	ND	202	101	200	0.978	
<b>DRO &gt;C10-C28*</b>	<b>12.2</b>	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 109 % 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: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 15 3' (H244312-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	07/19/2024	ND	2.19	109	2.00	0.843	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.25	113	2.00	0.508	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	7.00	117	6.00	0.527	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
<b>Chloride</b>	<b>2600</b>	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
<b>DRO &gt;C10-C28*</b>	<b>79.6</b>	10.0	07/18/2024	ND	198	98.9	200	0.367	
<b>EXT DRO &gt;C28-C36</b>	<b>10.1</b>	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 16 3' (H244312-04)**

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	07/19/2024	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	07/19/2024	ND	2.19	109	2.00	0.843	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.25	113	2.00	0.508	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	7.00	117	6.00	0.527	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1100	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 109 % 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  
 HADLIE GREEN  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 17 3' (H244312-05)**

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	07/19/2024	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	07/19/2024	ND	2.19	109	2.00	0.843	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.25	113	2.00	0.508	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	7.00	117	6.00	0.527	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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
<b>Chloride</b>	<b>512</b>	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
<b>DRO &gt;C10-C28*</b>	<b>15.1</b>	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 18 3' (H244312-06)**

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	07/18/2024	ND	2.01	100	2.00	7.28	
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	864	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 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  
 HADLIE GREEN  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 19 3' (H244312-07)**

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	07/18/2024	ND	2.01	100	2.00	7.28	
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	5840	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 03 0-3' (H244312-08)**

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	07/18/2024	ND	2.01	100	2.00	7.28	
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	200	99.8	200	14.0	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	196	98.0	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

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

Received: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 04 0-3' (H244312-09)**

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	07/18/2024	ND	2.01	100	2.00	7.28	
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	200	99.8	200	14.0	
<b>DRO &gt;C10-C28*</b>	<b>104</b>	10.0	07/18/2024	ND	196	98.0	200	14.2	
<b>EXT DRO &gt;C28-C36</b>	<b>81.7</b>	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 07/18/2024  
 Reported: 07/19/2024  
 Project Name: RGA #2 & #3 BATTERY  
 Project Number: 03C2012087  
 Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 05 0-3' (H244312-10)**

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	07/18/2024	ND	2.01	100	2.00	7.28	
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	200	99.8	200	14.0	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	196	98.0	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 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  
 HADLIE GREEN  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/19/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: SW 06 0-3' (H244312-11)**

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	07/18/2024	ND	2.01	100	2.00	7.28	
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92	
Total BTEX	<0.300	0.300	07/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/19/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	200	99.8	200	14.0	
DRO >C10-C28*	40.1	10.0	07/18/2024	ND	196	98.0	200	14.2	
EXT DRO >C28-C36	34.4	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*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**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Hadlie Green  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 432 557-8895 Fax #: Project Owner: BTA  
 Project #: 03C2012087  
 Project Name: RGA #2 and #3 Battery  
 Project Location:  
 Sampler Name: Jesse Dorman  
 P.O. #: Company: BTA Oil  
 Attn: Ray Ramos  
 Address: 104 S Pecos St  
 City: Midland  
 State: TX Zip: 79701  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
104431a	ES12	3'		1							9/27/24	13:35	Chloride	
	ES14										13:40		TPH	
	ES15										13:45		BTEX	
	ES16										13:50			
	ES17										13:55			
	ES18										14:00			
	ES19										14:05			
	BW03	0-3'									14:10			
	SW04										14:15			
	SW05										14:20			

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Relinquished By: [Signature]  
 Date: 7-18-24  
 Time: 1350  
 Received By: [Signature]  
 Date: [Blank]  
 Time: [Blank]

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: [Blank]  
 Observed Temp.: 0.3  
 Corrected Temp.: [Blank]  
 Sample Condition: Cool Intact Yes/No  
 Checked By: [Signature]  
 Turndown Time: #140  
 Thermometer ID: #113  
 Correction Factor: 0.5C  
 Standard Rush 24hr  
 Add'l Phone #: [Blank]  
 All Results are emailed. Please provide Email address: HGreen@ensolum.com  
 Incident: nAPP2334153994 BTA Incident: #67  
 Bacteria (only) Sample Condition: Cool Intact Yes/No  
 Corrected Temp.: [Blank]

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
Project Manager: Hadlie Green  
Address: 3122 National Parks Hwy  
City: Carlsbad  
State: NM Zip: 88220  
Phone #: 432 557-8895 Fax #: Project Owner: BTA  
Project #: 03C2012087  
Project Name: RGA #2 and #3 Battery  
Project Location:  
Sampler Name: Jesse Dorman

**BILL TO**  
P.O. #: Company: BTA Oil  
Attn: Ray Ramos  
Address: 104 S Pecos St  
City: Midland  
State: TX Zip: 79701  
Phone #: Fax #:

**ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	chloride	TPT
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
1844312	SW06	0-3'	C	1								7/17/24	1425			
		SD														

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Relinquished By: [Signature]  
Date: 7/18/24  
Time: 1350  
Received By: [Signature]  
Date: [Blank]  
Time: [Blank]

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:  
Observed Temp. °C: 6.3  
Corrected Temp. °C: [Blank]  
Sample Condition: Cool Intact [Yes/No] [Blank]  
CHECKED BY: [Signature]  
Turnaround Time: #140  
Thermometer ID: #143  
Correction Factor: .06  
Standard Rush [Checked] [Blank]  
Bacteria (only) Sample Condition: Cool Intact [Yes/No] [Blank]

Verbal Result:  Yes  No  Add'l Phone #:  
All Results are emailed. Please provide Email address: HGreen@ensolum.com  
REMARKS: Incident: nA/P2334/153994 BTA Incident: #67  
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:58.

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.

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:	07/30/2024	Sampling Date:	07/30/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA - EDDY CO		

**Sample ID: FS 14 3' (H244533-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99	
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2024	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	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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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**Analytical Results For:**

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

Received:	07/30/2024	Sampling Date:	07/30/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA - EDDY CO		

**Sample ID: FS 15 3' (H244533-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99	
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81	
Total BTEX	<0.300	0.300	07/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2024	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	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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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**Analytical Results For:**

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

Received:	07/30/2024	Sampling Date:	07/30/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA - EDDY CO		

**Sample ID: FS 16 3' (H244533-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99	
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81	
Total BTEX	<0.300	0.300	07/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2024	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	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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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:	07/30/2024	Sampling Date:	07/30/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA - EDDY CO		

**Sample ID: FS 18 3' (H244533-04)**

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	07/30/2024	ND	1.87	93.4	2.00	5.99	
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81	
Total BTEX	<0.300	0.300	07/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/31/2024	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	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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, LLC  
 HADLIE GREEN  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/30/2024	Sampling Date:	07/30/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA - EDDY CO		

**Sample ID: FS 19 3' (H244533-05)**

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	07/30/2024	ND	1.87	93.4	2.00	5.99	
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2024	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	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	07/30/2024	Sampling Date:	07/30/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA - EDDY CO		

**Sample ID: SW 04 0-3' (H244533-06)**

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	07/30/2024	ND	1.87	93.4	2.00	5.99	
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2024	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	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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\*=Accredited Analyte

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



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Notes and Definitions

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BTA Incident #67

BILL TO

ANALYSIS REQUEST

Company Name: ENSOUM LLC  
 Project Manager: Hadise Goben  
 Address: 601 N Woodward St, Ste. 400  
 City: Midland, State: TX Zip: 79701  
 Phone #: 432-578-8895 Fax #:   
 Project #: 0362012887 Project Owner:   
 Project Name: R64 #2 and #3 BATHS  
 Project Location: Eddy County, New Mexico  
 Sampler Name: Neah Dietl  
 P.O. #:   
 Company: BTA oil probes.  
 Attn: Roy Powers  
 Address:   
 City:   
 State:   
 Zip:   
 Phone #:   
 Fax #:

Lab I.D.	Sample I.D.	Matrix	PRESERV.	SAMPLING	DATE		TIME	BTEX	TPH	Chlorides 4500
					DATE	TIME				
ABUUS33	F514	(G)RAB OR (C)OMP.			7/30/24	1915	X	X	X	
	F515	# CONTAINERS			7/30/24	1930	X	X	X	
	F516	GROUNDWATER			7/30/24	1925	X	X	X	
	F518	WASTEWATER			7/30/24	1730	X	X	X	
	F519	SOIL			7/30/24	1755	X	X	X	
	F504	OIL			7/30/24	1740	X	X	X	
		SLUDGE								
		OTHER:								
		ACID/BASE:								
		ICE / COOL								
		OTHER:								

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Relinquished By: Neah Dietl Date: 7/30/24 Received By: [Signature]  
 Relinquished By: [Signature] Date: 7/30/24 Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C: 1.0°C Corrected Temp. °C: 1.0°C  
 Sampler - UPS - Bus - Other: UPS 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: 24 mV Observed Temp. °C: 1.0°C Corrected Temp. °C: 1.0°C

REMARKS: \* Customer requested Depth changes

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



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

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August 26, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/26/24 14:49.

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,

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:	06/26/2024	Sampling Date:	06/21/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: SW 01 0-3' (H243832-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/02/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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



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:	06/26/2024	Sampling Date:	06/21/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: SW 02 0-3' (H243832-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEX	<0.300	0.300	07/01/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659		
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905		
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	06/26/2024	Sampling Date:	06/21/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 03 3' (H243832-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEX	<0.300	0.300	07/01/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659		
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905		
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	06/26/2024	Sampling Date:	06/21/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 04 3' (H243832-04)**

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	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEX	<0.300	0.300	07/01/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659		
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905		
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	06/26/2024	Sampling Date:	06/21/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 06 3' (H243832-05)**

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	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	07/02/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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:	06/26/2024	Sampling Date:	06/21/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	RGA #2 & #3 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012087	Sample Received By:	Alyssa Parras
Project Location:	BTA 32.300596,-104.05997		

**Sample ID: FS 08 3' (H243832-06)**

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	07/02/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/02/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**Company Name:** Ensolum, LLC  
**Project Manager:** Hadlie Green  
**Address:** 3122 National Parks Hwy  
**City:** Carlsbad **State:** NM **Zip:** 88220  
**Phone #:** 432 557-8895 **Fax #:**  
**Project #:** 03C2012087 **Project Owner:** BTA  
**Project Name:** RGA #2 and #3 Battery  
**Project Location:**  
**Sample Name:** Jesse Norman  
**FOR LAB USE ONLY**

**BILL TO**  
**P.O. #:**  
**Company:** BTA Oil  
**Attn:** Ray Ramos  
**Address:** 104 S Pecos St  
**City:** Midland  
**State:** TX **Zip:** 79701  
**Phone #:**  
**Fax #:**

**ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H243832	SW01	0-3'	C	1						6/21/24	11:13	Chloride	
	SW02	0-3'	C	1						6/21/24	9:44	TPh	
	SW03	3'	C	1						6/21/24	12:19	BTEX	
	SW04	3'	C	1						6/21/24	12:37		
	SW06	3'	C	1						6/21/24	12:00		
	SW08	3'	C	1						6/21/24	13:31		

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**Relinquished By:** [Signature] **Date:** 6/18/24 **Received By:** [Signature] **Date:** 6/21/24  
**Relinquished By:** [Signature] **Date:** 6/21/24 **Received By:** [Signature] **Date:** 6/21/24  
**Delivered By:** (Circle One) **Observed Temp. °C:** 5.0 **Sample Condition:**  Intact  Cool  Bacteria (only)  Sample Condition Observed Temp. °C  
**Sampler - UPS - Bus - Other:** **Corrected Temp. °C:** 5.0 **Turnaround Time:** Standard  Rush  Bacteria (only)  Sample Condition Observed Temp. °C  
**Correction Factor:** 0.5°C **Thermometer ID #:** 110 **Correction Factor:** 0.5°C **Turnaround Time:** Standard  Rush  Bacteria (only)  Sample Condition Observed Temp. °C

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

*\*Customer requested Depth changes. 6/21/24*

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 Phone:(575) 748-1283 Fax:(575) 748-9720  
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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 381066

**QUESTIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2334153994
Incident Name	NAPP2334153994 RGA #2 & #3 BATTERY @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2201821083] RGA #2 & #3

**Location of Release Source**

Please answer all the questions in this group.

Site Name	RGA #2 & #3 Battery
Date Release Discovered	12/07/2023
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc.   Water Tank   Crude Oil   Released: 95 BBL   Recovered: 92 BBL   Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc.   Water Tank   Produced Water   Released: 12 BBL   Recovered: 5 BBL   Lost: 7 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)	A dump valve on the heater failed open, sending excess oil to the water tank, causing it to overflow. All fluid stayed within the earthen berm containment.

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QUESTIONS, Page 2

Action 381066

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>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.</i>	

**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: kbeaird@btaoil.com Date: 12/20/2023
--	--

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QUESTIONS, Page 3

Action 381066

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	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 26 and 50 (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 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 100 and 200 (ft.)
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)	5860
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	51140
GRO+DRO (EPA SW-846 Method 8015M)	45700
BTEX (EPA SW-846 Method 8021B or 8260B)	721
Benzene (EPA SW-846 Method 8021B or 8260B)	45.4

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

On what estimated date will the remediation commence	12/18/2023
On what date will (or did) the final sampling or liner inspection occur	07/30/2024
On what date will (or was) the remediation complete(d)	07/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	3750
What is the estimated volume (in cubic yards) that will be reclaimed	420
What is the estimated surface area (in square feet) that will be remediated	3750
What is the estimated volume (in cubic yards) that will be remediated	420

*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 381066

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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 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: 09/05/2024
--	---

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 5

Action 381066

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

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QUESTIONS, Page 6

Action 381066

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>366474</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>07/30/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>5</b>
What was the sampling surface area in square feet	<b>1650</b>

**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	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
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	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>3750</b>
What was the total volume (cubic yards) remediated	<b>420</b>
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	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>3750</b>
What was the total volume (in cubic yards) reclaimed	<b>420</b>
Summarize any additional remediation activities not included by answers (above)	Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater was determined to be less than 50 feet bgs within 0.5 miles of the Site and some sensitive receptors were identified near the release extent. As such, the Site was remediated according to the most stringent Table I Closure Criteria. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2334153994.

*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: 09/05/2024
--	---

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QUESTIONS, Page 7

Action 381066

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 381066

**CONDITIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2334153994 RGA #2 & #3 BATTERY, thank you. This Remediation Closure Report is approved.	10/17/2024