



July 24, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
Rojo 10H-13H, 34H-37H
Incident Number nAPP2313055442
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared the following *Closure Request* to document assessment, delineation, excavation, and soil sampling activities at the Rojo 10H-13H, 34H-37H (Site), in accordance with an approved Remediation *Work Plan (Work Plan)*, submitted October 31, 2023. The *Work Plan* detailed assessment and delineation activities that were completed at the Site and proposed additional delineation and excavation of impacted soil identified at the Site. Based on delineation and excavation activities completed and laboratory analytical results from the soil sampling events in accordance with the *Work Plan*, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2313055442.

Details regarding the release, Site characterization, and proposed remediation activities can be referenced in the original *Work Plan* submitted on October 31, 2023. The original *Work Plan* is available on the New Mexico Oil Conservation Division (NMOCD) web portal. On February 16, 2024, the NMOCD approved the *Work Plan* as written.

BACKGROUND

The Site is located in Unit A, Section 27, Township 25 South, Range 33 East, in Lea County, New Mexico (32.108028°, -103.553151°) and is associated with oil and gas exploration and production operations on private land owned by CAML, LTD.

On April 27, 2023, failure of a fused seam on a 6-inch poly line resulted in the release of approximately 650 barrels (bbls) of produced water onto the surface of well pad and into the surrounding pasture west of the pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 130 bbls of produced water were recovered. BTA reported the release immediately to the NMOCD via email and submitted a Release Notification Form C-141 (Form C-141) on May 16, 2023. The release was assigned Incident Number nAPP2313055442.

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC).

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Based on the results of the Site Characterization reported in the October 2023 *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 5, 2024, Ensolum personnel were at the Site to assess the vertical extent of impacted soil within the on pad release extent. Boreholes BH07 through BH09 were advanced via hydrovac within the release. Soil from the boreholes was field screened at half foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The final depth of the boreholes was determined by field screening results of soil indicating the likelihood of compliance with the Closure Criteria. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix A. 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 in Appendix B.

The delineation 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 constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

Laboratory analytical results for the delineation soil samples collected from boreholes BH07 through BH09 indicated all COC concentrations were compliant with the Site Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix C. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the assessment and delineation soil samples, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between May 10, 2024, and July 9, 2024, Ensolum personnel oversaw excavation activities based on field screening activities and laboratory analytical results from assessment and delineation activities. Excavation activities were performed via excavator, hydrovac, hand shovels, and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 5 feet below ground surface (bgs). Photographic documentation is included in Appendix B.

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Following removal of impacted soil, 5-point composite soil samples were collected every 400 square feet from the floor per an approved sampling variance and every 200 square feet of the sidewalls of the excavation, following the approved *Work Plan*. 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 through FS58 were collected from the floor of the excavation at depths ranging from 1-foot to 5 feet bgs. Composite soil samples SW01 through SW22 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 5 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure and reclamation requirement, where applicable. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 23,000 square feet in areal extent. A total of approximately 3,400 cubic yards of impacted soil was removed during excavation activities. The soil was transported and properly disposed of at the Lea Land Disposal Facility in New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

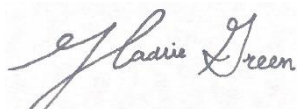
CLOSURE REQUEST

Remediation activities were conducted at the Site to address the April 2023 produced water release. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement, where applicable. Based on soil analytical results, no further remediation is required. BTA will backfill the excavation with material purchased locally and recontour the Site to match pre-existing conditions.

Based on initial response efforts and soil sample laboratory analytical results confirming the removal of impacted soil, these actions appear to have been protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2313055442.

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

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

cc: Ray Ramos, BTA
CAML, LTD

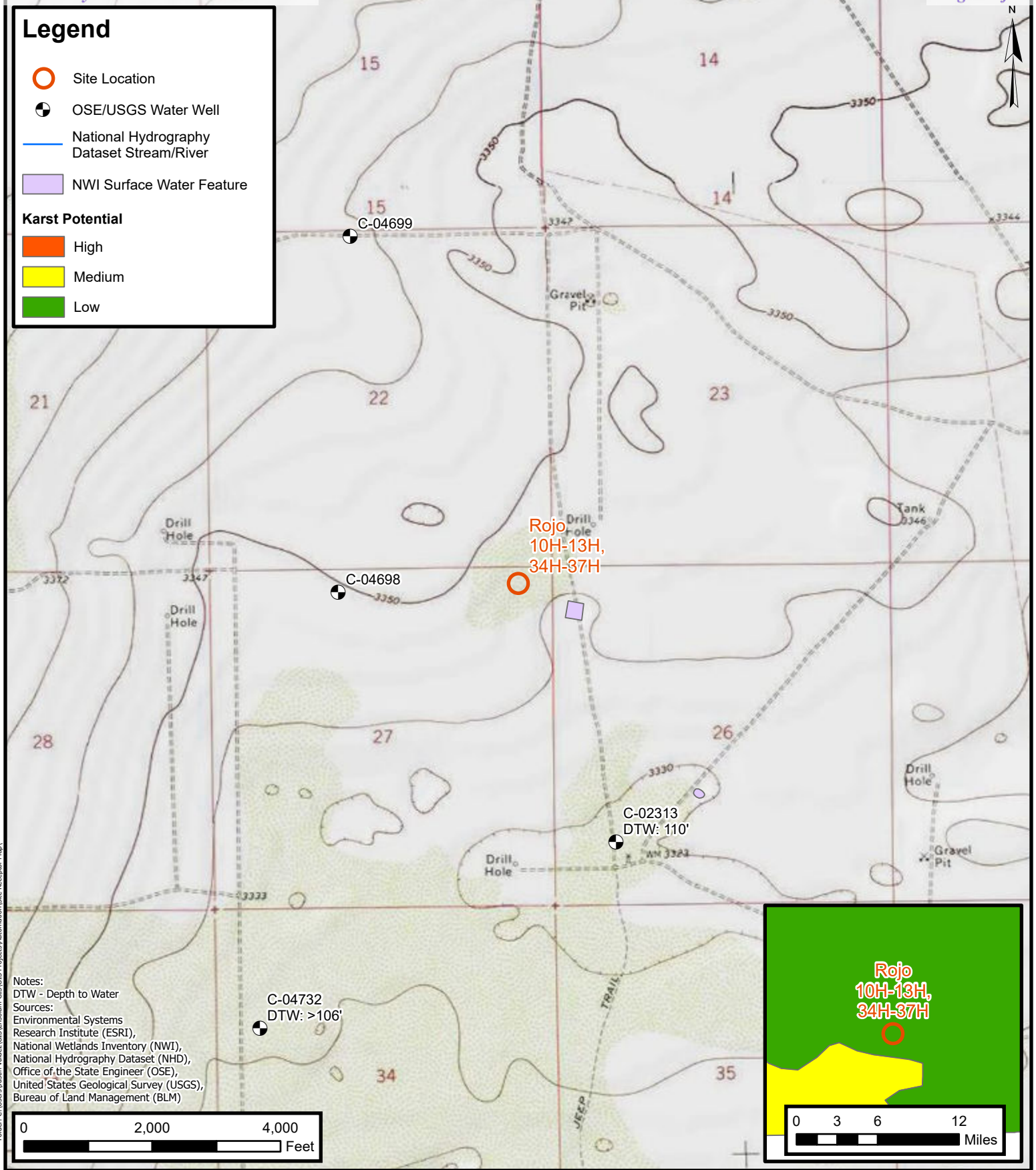
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Appendices:

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	Lithologic / Soil Sampling Logs
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



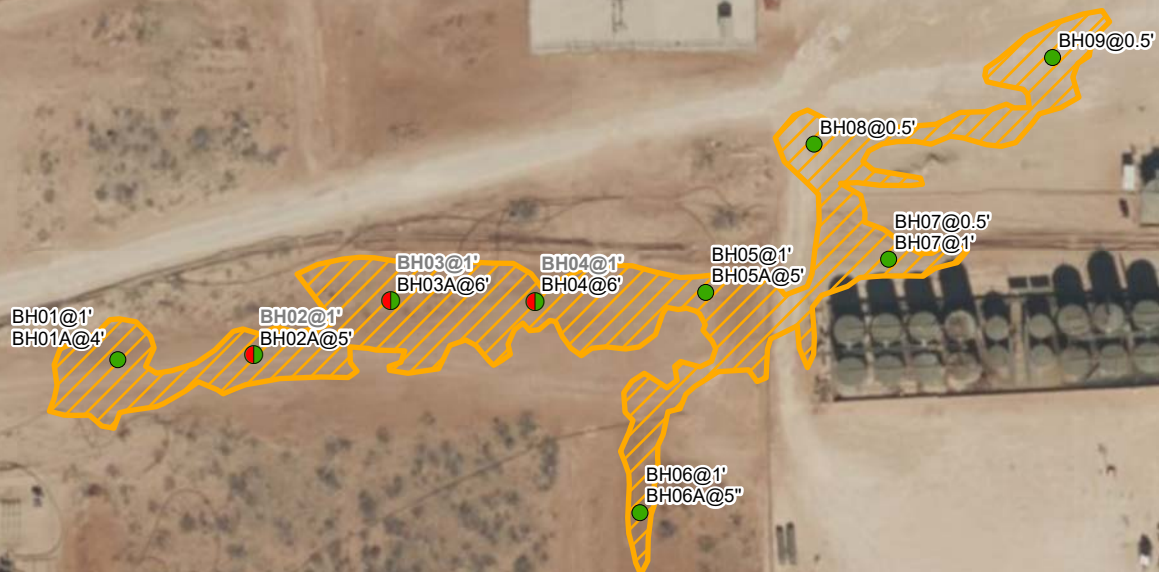
ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Receptor Map
BTA Oil Producers, LLC
Rojo 10H-13H, 34H-37H
Incident Number: nAPP2313055442
Unit A, Sec 27, T25S, R33E
Lea County, New Mexico

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 25 50 100 150 200
 Feet

Sources: Environmental Systems Research Institute (ESRI)




Delineation Soil Sample Locations

BTA Oil Producers, LLC
 Rojo 10H-13H, 34H-37H
 Incident Number: nAPP2313055442
 Unit A, Sec 27, T25S, R33E
 Lea County, New Mexico

FIGURE

2

 <p>ENSOLUM Environmental, Engineering and Hydrogeologic Consultants</p>	<p>Excavation Soil Sample Locations</p> <p>BTA Oil Producers, LLC Rojo 10H-13H, 34H-37H Incident Number: nAPP2313055442 Unit A, Sec 27, T25S, R33E Lea County, New Mexico</p>	<p>FIGURE</p> <p>3</p>
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TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Rojo 10H-13H, 34H-37H
 BTA Oil Producers, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Assessment Soil Samples										
SS01	05/19/2023	0.5	<0.050	<0.300	<10.0	58.7	<10.0	59.0	59.0	24,000
SS02	05/19/2023	0.5	<0.050	<0.300	<10.0	834	243	834	1,077	10,800
SS03*	05/19/2023	0.5	<0.050	<0.300	<10.0	85.9	49.2	86.0	134	18,800
SS04*	05/19/2023	0.5	<0.050	<0.300	<10.0	49.4	26.6	49.0	76.0	14,000
SS05*	05/19/2023	0.5	<0.050	<0.300	<10.0	416	102	416	518	9,460
SS06*	05/19/2023	0.5	<0.050	<0.300	<10.0	21.5	20.2	22.0	42.0	22,000
SS07*	05/19/2023	0.5	<0.050	<0.300	<10.0	14.8	<10.0	15.0	15.0	20,400
SS08*	05/19/2023	0.5	<0.050	<0.300	<10.0	18.0	<10.0	18.0	18.0	15,200
SS09	05/19/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS10*	05/19/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS11*	05/19/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS12*	05/19/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS13*	05/19/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS14*	05/19/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS15	05/19/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS16	05/19/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
Delineation Soil Samples										
BH01*	06/16/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH01A	06/16/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
BH02*	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,940
BH02A	06/16/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH03*	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,320
BH03A	06/16/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
BH04*	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
BH04A	06/16/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH05*	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
BH05A	06/15/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
BH06*	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
BH06A	06/16/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH07	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH07	03/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH08	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
BH09	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	928
Excavation Floor Soil Samples										
FS01	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,480
FS02	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
FS03	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,440
FS04	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,490
FS05	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,250
FS06	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	768
FS07	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992
FS08	05/10/2024	1	<0.050	<0.300	<10.0	13.0	<10.0	13.0	13.0	608
FS09	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS10	05/10/2024	1	<0.050	<0.300	<10.0	41.6	<10.0	41.6	41.6	1,220
FS11	05/10/2024	1	<0.050	<0.300	<10.0	732	186	732	918	1,010
FS12	05/10/2024	1	<0.050	<0.300	<10.0	322	70.5	322	393	352
FS13	05/10/2024	1	<0.050	<0.300	<10.0	184	103	184	287	784
FS14	05/10/2024	1	<0.050	0.323	13.8	1,320	418	1,334	1,752	1,630
FS14A	06/07/2027	1.25	<0.050	<0.300	<10.0	387	195	387	582	128
FS15	05/10/2024	1	<0.050	<0.300	<10.0	190	127	190	317	384



TABLE 1
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 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
FS16	05/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
FS17	05/10/2024	1	<0.050	<0.300	<10.0	38.0	<10.0	38.0	38.0	240
FS18	06/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS19	06/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS20	06/26/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS21*	06/26/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS22*	06/26/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS23*	07/09/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS24	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS25	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS26	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS27	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,840
FS28	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,080
FS29	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
FS30	06/27/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,250
FS31	06/27/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	944
FS32	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,700
FS33	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS34	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	14,200
FS34A	06/07/2024	4.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,640
FS35	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,040
FS36	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS37	06/26/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992
FS38	06/26/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,340
FS39	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,560
FS40	06/26/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,140
FS41	06/27/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,640



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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
FS42	07/09/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,920
FS43	06/27/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,000
FS44	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS45	06/26/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,110
FS46	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,200
FS47	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,480
FS48	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
FS49	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,040
FS50	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,320
FS51	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,960
FS52	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
FS53	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,760
FS54	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,160
FS55	05/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
FS56	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS57	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS58	07/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,730
Excavation Sidewall Soil Samples										
SW01	05/10/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,090
SW02	05/10/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,090
SW03	05/10/2024	0 - 1	<0.050	<0.300	<10.0	77.6	31.3	77.6	109	816
SW04	05/10/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	816
SW05*	06/25/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SW06*	06/24/2024	0 - 5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW07*	05/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW08*	05/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
SW09*	06/27/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Rojo 10H-13H, 34H-37H
 BTA Oil Producers, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
SW10*	07/09/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW11*	05/17/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW12*	05/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW13*	05/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW14*	05/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW15*	05/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW16*	05/17/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW17*	05/17/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW18	05/17/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW19	06/07/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW20	06/07/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW21	06/07/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW22	06/07/2024	0 - 1	<0.050	<0.300	<10.0	77.7	21.8	77.7	100	160

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

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

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


Grey text indicates sample has been excavated.


* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.





APPENDIX A


Lithologic Soil Sampling Logs


								Sample Name: BH02		Date: 6/16/23	
								Site Name: Rojo 10H-13H, 34H-37H			
								Incident Number: nAPP2313055442			
								Job Number: 03C2012038			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Excavator	
Coordinates: 32.1083590, -103.5545106								Hole Diameter: 3'		Total Depth:	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	2,783	11.2	N	BH02	1	1	SP-SM	SAND, poorly graded, low plasticity, low cohesiveness, reddish brown			
M	2,548	11.7	N	BH02A	2	2	SAA	SAA			
M	2,604	6.2	N	BH02B	3	3	SP-GP	SAND, poorly graded sand with abundant limestone low cohesiveness, light brown			
M	952	3.4	N	BH02C	4	4	SAA	SAA			
M	<173.8	1.4	N	BH02D	5	5	CCHE	CALICHE, abundant limestone gravel, low cohesiveness, low plasticity, pale tan			
								Refusal at 5 ft bgs			
								TD at 5 ft bgs			


								Sample Name: BH03		Date: 6/16/23	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Rojo 10H-13H, 34H-37H			
								Incident Number: nAPP2313055442			
								Job Number: 03C2012038			
Coordinates: 32.1084193, -103.5542732								Logged By: Ronni Hayes		Method: Excavator	
								Hole Diameter: 3'		Total Depth:	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	1,215.2	2.8	N	BH03	1	1	SP-SM	SAND, poorly graded, low plasticity, low cohesive-ness, reddish brown			
M	3,432.8	6.4	N	BH03A	2	2	SAA	SAA			
M	1,741.60	2.4	N	BH03B	3	3	SP-GP	SAND, poorly graded sand with abundant limestone low cohesiveness, light brown			
M	1,864.80	1.7	N	BH03C	4	4	SAA	SAA			
M	2,548	1.3	N	BH03D	5	5	SAA	SAA			
M	448	1	N	BH03E	6	6	CCHE	CALICHE, abundant limestone gravel, low cohesive-ness, low plasticity, pale tan			
								Refusal at 6 ft bgs			
								TD at 6 ft bgs			

								Sample Name: BH04		Date: 6/16/23	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Rojo 10H-13H, 34H-37H			
								Incident Number: nAPP2313055442			
								Job Number: 03C2012038			
Coordinates: 32.1084139, -103.5540414								Logged By: Ronni Hayes		Method: Excavator	
								Hole Diameter: 3'		Total Depth:	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	1,864	8.2	N	BH04	1	1	SP-SM	SAND, poorly graded, low plasticity, low cohesiveness, reddish brown			
M	1,741	6.2	N	BH04A	2	2	SAA	SAA			
M	3,432	2.9	N	BH04B	3	3	SP-GP	SAND, poorly graded sand with abundant limestone low cohesiveness, light brown			
M	1,310	1.8	N	BH04C	4	4	SAA	SAA			
M	661	1.4	N	BH04D	5	5	SAA	SAA			
M	319.2	1.1	N	BH04E	6	6	CCHE	CALICHE, abundant limestone gravel, low cohesiveness, low plasticity, pale tan			
								Refusal at 6 ft bgs			
								TD at 6 ft bgs			
						8					
						9					
						10					
						11					
						12					

						Sample Name: BH05		Date: 6/16/23	
						Site Name: Rojo 10H-13H, 34H-37H			
						Incident Number: nAPP2313055442			
						Job Number: 03C2012038			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: Ronni Hayes		Method: Excavator	
Coordinates: 32.1084317, -103.5537033						Hole Diameter: 3'		Total Depth:	
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. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
						0			
M	604.8	3.0	N	BH05	1	1	SP-SM	SAND, poorly graded, low plasticity, low cohesiveness, reddish brown	
M	<173.8	1.7	N	BH05A	2	2	SP-GP	SAND, poorly graded sand with abundant limestone low cohesiveness, light brown	
M	<173.8	3.1	N	BH05B	3	3	SAA	SAA	
M	604.8	0.3	N	BH05C	4	4	SAA	SAA	
M	498	2.4	N	BH05D	5	5	CCHE	CALICHE, abundant limestone gravel, low cohesiveness, low plasticity, pale tan	
								Refusal at 5 ft bgs	
								TD at 5 ft bgs	
						7			
						8			
						9			
						10			
						11			
						12			

 ENSOLUM								Sample Name: BH07		Date: 03/05/2024	
								Site Name: Rojo 10H-13H, 34H-37H			
								Incident Number: nAPP2313055442			
								Job Number: 03C2012038			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KS		Method: Hydrovac	
Coordinates: 32.1084745, -103.5534315								Hole Diameter: N/A		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. 40% correction factor included. M-moist; N-No											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	<167	0.0	N	BH07	0.5	0.5	CCHE	CALICHE, abundant limestone gravel, pale tan			
M	162.4	0.0	N	BH07A	1	1	SAA	Same as above (SAA)			
Total Depth @ 1 foot bgs											
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>											

								Sample Name: BH08		Date: 03/05/2024	
								Site Name: Rojo 10H-13H, 34H-37H			
								Incident Number: nAPP2313055442			
								Job Number: 03C2012038			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KS		Method: Hydrovac	
Coordinates: 32.1086405, -103.5535542								Hole Diameter: N/A		Total Depth: 0.5'	
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. 40% correction factor included. M-moist; N-No											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	1,164	0.1	N	BH08	0.5	0	CCHE	CALICHE, abundant limestone gravel, pale tan			
Total Depth @ 0.5 feet bgs											

								Sample Name: BH09		Date: 03/05/2024	
								Site Name: Rojo 10H-13H, 34H-37H			
								Incident Number: nAPP2313055442			
								Job Number: 03C2012038			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KS		Method: Hydrovac	
Coordinates: 32.10876, -103.5531508								Hole Diameter: N/A		Total Depth: 0.5'	
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. 40% correction factor included. M-moist; N-No											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	1,254	0.0	N	BH09	0.5	0	CCHE	CALICHE, abundant limestone gravel, pale tan			
Total Depth @ 0.5 feet bgs											



APPENDIX B

Photographic Log

**Photographic Log**

BTA Oil Producers, LLC

Rojo 10H-13H, 34H-37H

Incident Number nAPP2313055442

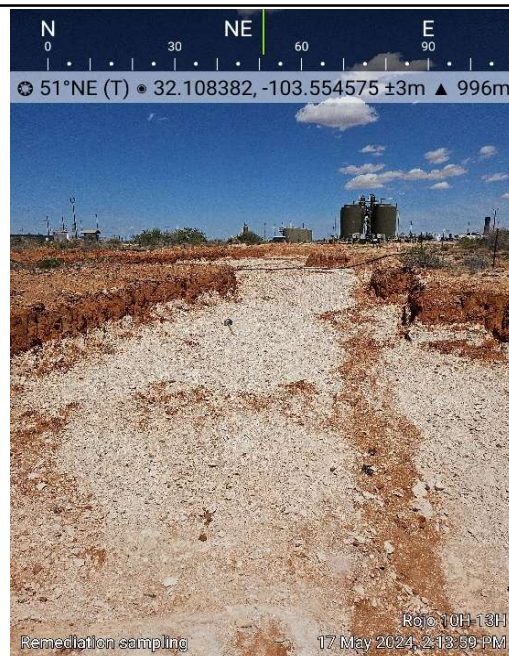


Photograph: 1

Date: 3/5/2024

Description: Delineation activities

View: North



Photograph: 2

Date: 5/17/2024

Description: Excavation activities

View: Northeast



Photograph: 3

Date: 5/17/2024

Description: Excavation activities

View: Northwest



Photograph: 4

Date: 6/26/2024

Description: Excavation activities

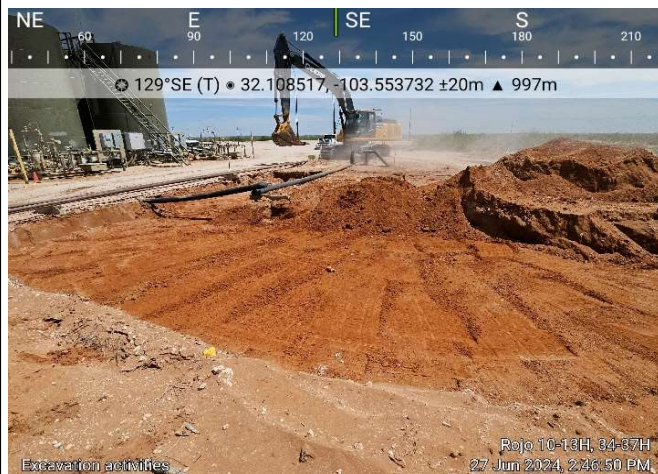
View: South

**Photographic Log**

BTA Oil Producers, LLC

Rojo 10H-13H, 34H-37H

Incident Number nAPP2313055442



Photograph: 5

Date: 6/27/2024

Description: Excavation activities

View: Southeast



Photograph: 6

Date: 6/27/2024

Description: Excavation activities

View: West



Photograph: 7

Date: 7/9/2024

Description: Excavation activities

View: Northeast



Photograph: 8

Date: 7/9/2024

Description: Excavation activities

View: Southwest



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 23, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 10H - 13H, 34H - 37H

Enclosed are the results of analyses for samples received by the laboratory on 06/19/23 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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:	06/19/2023	Sampling Date:	06/16/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 01 1' (H233151-01)

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	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	159	79.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	158	79.1	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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:	06/19/2023	Sampling Date:	06/16/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 01 C 4' (H233151-02)

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	06/21/2023	ND	2.38	119	2.00	5.79	QM-07	
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEX	<0.300	0.300	06/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	159	79.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	158	79.1	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/19/2023	Sampling Date:	06/15/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 02 1' (H233151-03)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEX	<0.300	0.300	06/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1940	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	159	79.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	158	79.1	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/19/2023	Sampling Date:	06/16/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 02 D 5' (H233151-04)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEx	<0.300	0.300	06/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	159	79.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	158	79.1	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/19/2023	Sampling Date:	06/15/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 03 1' (H233151-05)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEx	<0.300	0.300	06/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	226	113	200	7.71	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	223	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	06/19/2023	Sampling Date:	06/16/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 03 E 6' (H233151-06)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEx	<0.300	0.300	06/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	226	113	200	7.71	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	223	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 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:	06/19/2023	Sampling Date:	06/15/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 04 1' (H233151-07)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEx	<0.300	0.300	06/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1360	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	226	113	200	7.71	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	223	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 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:	06/19/2023	Sampling Date:	06/16/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 04 E 6' (H233151-08)

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	06/21/2023	ND	2.38	119	2.00	5.79	
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	226	113	200	7.71	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	223	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Analytical Results For:

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

Received:	06/19/2023	Sampling Date:	06/15/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 05 1' (H233151-09)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEX	<0.300	0.300	06/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	226	113	200	7.71	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	223	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/19/2023	Sampling Date:	06/15/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 05 D 5' (H233151-10)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEx	<0.300	0.300	06/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	226	113	200	7.71	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	223	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 58.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.7 % 49.1-148

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Analytical Results For:

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

Received:	06/19/2023	Sampling Date:	06/15/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 06 1' (H233151-11)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEX	<0.300	0.300	06/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	226	113	200	7.71	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	223	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/19/2023	Sampling Date:	06/16/2023
Reported:	06/23/2023	Sampling Type:	Soil
Project Name:	ROJO 10H - 13H, 34H - 37H	Sampling Condition:	Cool & Intact
Project Number:	03C2012038 (32.108028-103.553151)	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO		

Sample ID: BH 06 D 5' (H233151-12)

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	06/21/2023	ND	2.38	119	2.00	5.79		
Toluene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.16	108	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.48	108	6.00	5.04		
Total BTEX	<0.300	0.300	06/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2023	ND	226	113	200	7.71	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	223	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

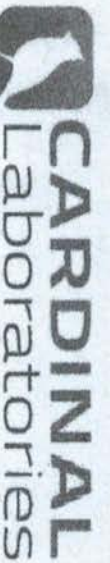
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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: *Hadlie Green*

P.O. #: *BT A 0,1*

Address: *3122 National Park Hwy*

Company: *BT A 0,1*

City: *Carlsbad* State: *NM* Zip: *88220*

Attn: *Kelton Beard*

Phone #: *532-557-8895* Fax #:

Address: *104 S Pecos St*

Project #: *03C2012038* Project Owner: *BT A 0,1*

City: *Midland*

Project Name: *Rgd 10H-13H, 34H-37H*

State: *TX* Zip: *79701*

Project Location: *52.108028, -103.553151*

Phone #:

Sampler Name: *Rami Hughes*

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D. Sample I.D.

Depth (feet)

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

DATE TIME

BTEx
TPH
Cl⁻

<i>H233151</i>	<i>BH01</i>	<i>1</i>	<i>6</i>	<i>1</i>	<i>6/16/23</i>	<i>1425</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>2</i>	<i>BH01C</i>	<i>4</i>	<i>1</i>	<i>1</i>	<i>6/16/23</i>	<i>1450</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>3</i>	<i>BH02</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>6/16/23</i>	<i>1242</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>4</i>	<i>BH02D</i>	<i>5</i>	<i>1</i>	<i>1</i>	<i>6/16/23</i>	<i>1405</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>5</i>	<i>BH03</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>6/15/23</i>	<i>1860</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>6</i>	<i>BH03E</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>6/16/23</i>	<i>1349</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>7</i>	<i>BH04</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>6/15/23</i>	<i>1315</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>8</i>	<i>BH04E</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>6/16/23</i>	<i>1306</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>9</i>	<i>BH05</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>6/16/23</i>	<i>1415</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>10</i>	<i>BH05D</i>	<i>5</i>	<i>1</i>	<i>1</i>	<i>6/16/23</i>	<i>1445</i>	<i>X</i>	<i>X</i>	<i>X</i>										

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' exclusion remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims excluding those for negligence and any other claims where the client makes a written and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *JMM*

Date: *6-19-23*

Received By: *Hadlie Green*

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

All Results are emailed. Please provide Email address:

Relinquished By:

Date:

Received By:

REMARKS:

hgreen@ensolum.com

Delivered By: (Circle One)

Observed Temp.: *22*

Sample Condition

CHECKED BY: *AG*

Turnaround Time:

Standard

☒

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp.: *1.6*

Cool ☒ Intact ☒

Thermometer ID #113

Rush ☐

Cool ☐ Intact ☐

Observed Temp.: *22*

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



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 11, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROJO 10 -13/14 - 37

Enclosed are the results of analyses for samples received by the laboratory on 03/06/24 12:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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: 03/06/2024
 Reported: 03/11/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH 07 0.5' (H241118-01)

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	03/08/2024	ND	1.94	97.1	2.00	0.577	
Toluene*	<0.050	0.050	03/08/2024	ND	2.04	102	2.00	0.864	
Ethylbenzene*	<0.050	0.050	03/08/2024	ND	2.00	100	2.00	0.918	
Total Xylenes*	<0.150	0.150	03/08/2024	ND	6.08	101	6.00	0.818	
Total BTEX	<0.300	0.300	03/08/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/08/2024	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	03/07/2024	ND	194	96.8	200	2.22	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	187	93.6	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2024
 Reported: 03/11/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH 07 1' (H241118-02)

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	03/08/2024	ND	1.94	97.1	2.00	0.577	
Toluene*	<0.050	0.050	03/08/2024	ND	2.04	102	2.00	0.864	
Ethylbenzene*	<0.050	0.050	03/08/2024	ND	2.00	100	2.00	0.918	
Total Xylenes*	<0.150	0.150	03/08/2024	ND	6.08	101	6.00	0.818	
Total BTEX	<0.300	0.300	03/08/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/08/2024	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	03/07/2024	ND	194	96.8	200	2.22	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	187	93.6	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2024
 Reported: 03/11/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH 08 0.5' (H241118-03)

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	03/08/2024	ND	1.94	97.1	2.00	0.577	
Toluene*	<0.050	0.050	03/08/2024	ND	2.04	102	2.00	0.864	
Ethylbenzene*	<0.050	0.050	03/08/2024	ND	2.00	100	2.00	0.918	
Total Xylenes*	<0.150	0.150	03/08/2024	ND	6.08	101	6.00	0.818	
Total BTEX	<0.300	0.300	03/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	03/08/2024	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	03/07/2024	ND	194	96.8	200	2.22	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	187	93.6	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/06/2024
 Reported: 03/11/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH 09 0.5' (H241118-04)

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	03/08/2024	ND	1.94	97.1	2.00	0.577	
Toluene*	<0.050	0.050	03/08/2024	ND	2.04	102	2.00	0.864	
Ethylbenzene*	<0.050	0.050	03/08/2024	ND	2.00	100	2.00	0.918	
Total Xylenes*	<0.150	0.150	03/08/2024	ND	6.08	101	6.00	0.818	
Total BTEx	<0.300	0.300	03/08/2024	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	928	16.0	03/08/2024	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	03/07/2024	ND	194	96.8	200	2.22	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	187	93.6	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 17, 2024

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

RE: ROJO 10 -13/14 - 37

Enclosed are the results of analyses for samples received by the laboratory on 05/14/24 13:40.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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



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

Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 04 0-1' (H242621-01)

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	05/15/2024	ND	1.91	95.4	2.00	0.989	
Toluene*	<0.050	0.050	05/15/2024	ND	1.90	95.2	2.00	0.595	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.96	98.0	2.00	0.260	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.72	95.3	6.00	0.319	
Total BTEX	<0.300	0.300	05/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/15/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	183	91.7	200	0.657	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.4 % 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

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder".

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

[illegible]



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

May 17, 2024

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

RE: ROJO 10 -13/14 - 37

Enclosed are the results of analyses for samples received by the laboratory on 05/14/24 13:40.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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



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

Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 01 1' (H242623-01)

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	05/15/2024	ND	1.91	95.4	2.00	0.989	
Toluene*	<0.050	0.050	05/15/2024	ND	1.90	95.2	2.00	0.595	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.96	98.0	2.00	0.260	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.72	95.3	6.00	0.319	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	05/15/2024	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	05/15/2024	ND	194	97.0	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	200	100	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 02 1' (H242623-02)

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	05/15/2024	ND	1.91	95.4	2.00	0.989		
Toluene*	<0.050	0.050	05/15/2024	ND	1.90	95.2	2.00	0.595		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.96	98.0	2.00	0.260		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.72	95.3	6.00	0.319		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	05/15/2024	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	05/15/2024	ND	194	97.0	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	200	100	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 03 1' (H242623-03)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	05/15/2024	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	05/15/2024	ND	194	97.0	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	200	100	200	5.50	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 04 1' (H242623-04)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 05 1' (H242623-05)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	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	1250	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 06 1' (H242623-06)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 07 1' (H242623-07)

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	05/15/2024	ND	1.89	94.6	2.00	1.33	
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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



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

Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 08 1' (H242623-08)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	13.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 09 1' (H242623-09)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEx	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 1' (H242623-10)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	41.6	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 11 1' (H242623-11)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	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	1010	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	732	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	186	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 1' (H242623-12)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	322	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	70.5	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 13 1' (H242623-13)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	184	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	103	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 14 1' (H242623-14)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	0.287	0.150	05/15/2024	ND	6.48	108	6.00	3.82	GC-NC1	
Total BTEX	0.323	0.300	05/15/2024	ND					GC-NC1	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	05/15/2024	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*	13.8	10.0	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	1320	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	418	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 1' (H242623-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	190	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	127	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 66.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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



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Analytical Results For:

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

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 16 1' (H242623-16)

BTX 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	05/15/2024	ND	1.89	94.6	2.00	1.33	
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82	
Total BTX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 17 1' (H242623-17)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	38.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-1' (H242623-18)

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	05/15/2024	ND	1.89	94.6	2.00	1.33	
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82	
Total BTEX	<0.300	0.300	05/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	05/15/2024	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	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 67.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 02 0-1' (H242623-19)

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	05/15/2024	ND	1.89	94.6	2.00	1.33		
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82		
Total BTEX	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	05/15/2024	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
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 05/14/2024
 Reported: 05/17/2024
 Project Name: ROJO 10 -13/14 - 37
 Project Number: 03C2012038
 Project Location: BTA - LEA CO NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 03 0-1' (H242623-20)

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	05/15/2024	ND	1.89	94.6	2.00	1.33	
Toluene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.14	107	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.48	108	6.00	3.82	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	05/15/2024	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
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	179	89.4	200	1.12	
DRO >C10-C28*	77.6	10.0	05/15/2024	ND	170	85.1	200	0.920	
EXT DRO >C28-C36	31.3	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 71.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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Notes and Definitions

- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder".

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



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: Hodlie Green

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 432-557-8895 Fax #:

Project #: 03C2012038 Project Owner: BTA Oil

Project Name: Bojo 10H-13H, 34H-37H

Project Location: 32.108026, -103.553151

Sampler Name: Tracy Hillard

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: BTA Oil Products LLC

Attn: Kay Ramos

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Depth (feet)

4742623

1'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

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Relinquished By:

Date: 5-14-24

Received By:

Date: 5-14-24

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

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Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Relinquished By:

Date: 5-14-24

Received By:

Date: 5-14-24

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

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Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Time: 1340

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Checked By: (Initials)

Turnaround Time:

Standard

Rush

Bacteria (only)

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 24, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 10H - 13H, 34H - 37H

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.

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
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 07 0-4' (H242767-01)

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	05/21/2024	ND	1.72	85.8	2.00	2.94	
Toluene*	<0.050	0.050	05/21/2024	ND	1.77	88.5	2.00	4.83	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.77	88.4	2.00	4.90	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.85	97.4	6.00	4.64	
Total BTEX	<0.300	0.300	05/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	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	218	109	200	2.36	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	221	110	200	8.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 08 0-4' (H242767-02)

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	05/21/2024	ND	1.72	85.8	2.00	2.94		
Toluene*	<0.050	0.050	05/21/2024	ND	1.77	88.5	2.00	4.83		
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.77	88.4	2.00	4.90		
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.85	97.4	6.00	4.64		
Total BTEX	<0.300	0.300	05/21/2024	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	496	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	218	109	200	2.36	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	221	110	200	8.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 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
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 12 0-4' (H242767-03)

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	05/21/2024	ND	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/21/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.66	111	6.00	0.292		
Total BTEx	<0.300	0.300	05/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	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	218	109	200	2.36	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	221	110	200	8.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 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
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 32 4' (H242767-04)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9700	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	218	109	200	2.36	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	221	110	200	8.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 33 4' (H242767-05)

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	2.09	105	2.00	3.71	
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292	
Total BTEX	<0.300	0.300	05/22/2024	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	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 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: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 34 4' (H242767-06)

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	2.09	105	2.00	3.71	
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14200	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 35 4' (H242767-07)

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	2.09	105	2.00	3.71	
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 36 4' (H242767-08)

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	2.09	105	2.00	3.71	
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292	
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: AC						
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	3.77		

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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 13 0-4' (H242767-09)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 14 0-4' (H242767-10)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 15 0-4' (H242767-11)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 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: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 11 0-1' (H242767-12)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 16 0-1' (H242767-13)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 17 0-1' (H242767-14)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 18 0-1' (H242767-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 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: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 44 4' (H242767-16)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 49 4' (H242767-17)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
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: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 51 4' (H242767-18)

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	2.09	105	2.00	3.71		
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6960	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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 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
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 53 4' (H242767-19)

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	2.09	105	2.00	3.71	
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292	
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	
Chloride	5760	16.0	05/21/2024	ND	416	104	400	7.41	QM-07	

TPH 8015M		mg/kg		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	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 52 4' (H242767-20)

BTX 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	2.09	105	2.00	3.71	
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292	
Total BTX	<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
Chloride	544	16.0	05/21/2024	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	05/21/2024	ND	191	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 54 4' (H242767-21)

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	2.09	105	2.00	3.71	
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	6160	16.0	05/21/2024	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	05/21/2024	ND	191	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 55 4' (H242767-22)

BTX 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	2.09	105	2.00	3.71	
Toluene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	0.803	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.15	107	2.00	0.505	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.66	111	6.00	0.292	
Total BTX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	05/21/2024	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	05/21/2024	ND	191	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.2 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 48 4' (H242767-23)

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	05/21/2024	ND	1.83	91.3	2.00	2.89		
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15		
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31		
Total BTEX	<0.300	0.300	05/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	05/21/2024	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	05/21/2024	ND	191	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 50 4' (H242767-24)

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	05/21/2024	ND	1.83	91.3	2.00	2.89		
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15		
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31		
Total BTEX	<0.300	0.300	05/21/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	05/21/2024	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	05/21/2024	ND	191	95.3	200	2.97	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	195	97.7	200	6.48	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 46 4' (H242767-25)

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	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	05/21/2024	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	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 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.4 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 47 4' (H242767-26)

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	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	05/21/2024	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	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 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.9 % 49.1-148

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Analytical Results For:

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

Received: 05/20/2024
Reported: 05/24/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038 (32.108028-103.553151)
Project Location: BTA - LEA CO

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 39 4' (H242767-27)

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) 92.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	05/21/2024	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	05/22/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.9 % 49.1-148

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC						BILL TO		ANALYSIS REQUEST																
Project Manager: Hadlie Green						P.O. #:																		
Address: 3122 National Parks Hwy						Company: BTA PAG RAMPLOS																		
City: Carlisbad						Attn: Kellon Bechtel																		
State: NM Zip: 88220						Address: 104 S pees st																		
Phone #: 337-237-8307 Fax #:						City: Midland																		
Project #: 03C 2012038 Project Owner: BTA						State: TX Zip: 79701																		
Project Location: 32.108028, -102.553151						Phone #: 432-312-2203																		
Sampler Name: Omar Handy / Uriel Santillana						Fax #:																		
<small>FOR LAB USE ONLY</small>						MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chloride						
	SW07	0-4'	C1	X	X	X	X	X	X	X	X	X	X	5/13/24	10:32	X	X	X						
	SW08	0-4'		X	X	X	X	X	X	X	X	X	X	11:10	11:10	X	X	X						
	SW12	0-4'		X	X	X	X	X	X	X	X	X	X	11:40	11:40	X	X	X						
	ES32	4'		X	X	X	X	X	X	X	X	X	X	11:45	11:50	X	X	X						
	ES33	4'		X	X	X	X	X	X	X	X	X	X	11:55	11:55	X	X	X						
	ES34	4'		X	X	X	X	X	X	X	X	X	X	12:00	12:00	X	X	X						
	ES35	4'		X	X	X	X	X	X	X	X	X	X	12:05	12:05	X	X	X						
	FS36	4'		X	X	X	X	X	X	X	X	X	X	12:55	12:55	X	X	X						
	SW13	0-4'		X	X	X	X	X	X	X	X	X	X	13:00	13:00	X	X	X						
	SW14	0-4'		X	X	X	X	X	X	X	X	X	X			X	X	X						

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Relinquished By: Omar Handy		Date: 5/20/24	Time: 10:19	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By:		Date:	Time:	Received By:	All Results are emailed. Please provide Email address:
REMARKS:		n APP2123555 col-n APP240085443			

Turnaround Time:	Standard <input checked="" type="checkbox"/>	Rush <input type="checkbox"/>	Bacteria (only) <input type="checkbox"/>	Cool Intact <input type="checkbox"/>	Sample Condition
Thermometer ID #TTS	AP	14D	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Observed Temp. °C
Correction Factor -0.5°C			Corrected Temp. °C		



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																																					
Project Manager: <u>Holly Green</u>				P.O. #:																																									
Address: <u>3122 Mahanad Parks Hwy</u>				Company: <u>BTA</u>																																									
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn: <u>Kellon Beertel</u>																																									
Phone #: <u>321-357-8307</u> Fax #:				Address: <u>1045 Pecos St</u>																																									
Project #: <u>03C 2012038</u> Project Owner: <u>BTA</u>				City: <u>M.iland</u>																																									
Project Name: <u>Rojo 10H-13H, 34H-37 H</u>				State: <u>TX</u> Zip: <u>79701</u>																																									
Project Location: <u>3210 8028, -103.553151</u>				Phone #: <u>432-312-2203</u>																																									
Sampler Name: <u>Ormar Hamdy / Uriel Santillana</u>				Fax #:																																									
FOR LAB USE ONLY																																													
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX		TPH		Chloride									
11		Sw 15		0-4'		C 1		1		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		5/7/24		13:05															
12		Sw 11		0-1'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		13:46																	
13		Sw 16		0-1'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		13:45																	
14		Sw 17		0-1'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		13:50																	
15		Sw 18		0-1'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		13:55																	
16		Sw 44		4'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		14:10																	
17		Sw 49		4'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		14:20																	
18		Sw 51		4'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		14:25																	
19		Sw 53		4'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		14:30																	
20		Sw 52		4'						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		14:55																	
<p>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																													
Relinquished By: <u>Ormar Hamdy</u>				Date: <u>5/20/24</u>		Received By: <u>Uriel Santillana</u>		Date: <u>5/20/24</u>		Time: <u>16:19</u>		Received By: <u>Uriel Santillana</u>		Date: <u>5/20/24</u>		Time: <u>16:21</u>		Observed Temp. °C: <u>46°C</u>		Corrected Temp. °C: <u>46°C</u>		Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		CHECKED BY: <u>AD</u>		Turnaround Time: <u>Standard</u>		Thermometer ID # <u>413</u>		Correction Factor <u>-0.5°C</u>		Bacteria (only) Sample Condition: <u>Cool Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		Observed Temp. °C: <u>46°C</u>		Corrected Temp. °C: <u>46°C</u>	
Relinquished By: <u>Ormar Hamdy</u>				Date: <u>5/20/24</u>		Received By: <u>Uriel Santillana</u>		Date: <u>5/20/24</u>		Time: <u>16:19</u>		Received By: <u>Uriel Santillana</u>		Date: <u>5/20/24</u>		Time: <u>16:21</u>		Observed Temp. °C: <u>46°C</u>		Corrected Temp. °C: <u>46°C</u>		Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		CHECKED BY: <u>AD</u>		Turnaround Time: <u>Standard</u>		Thermometer ID # <u>413</u>		Correction Factor <u>-0.5°C</u>		Bacteria (only) Sample Condition: <u>Cool Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		Observed Temp. °C: <u>46°C</u>		Corrected Temp. °C: <u>46°C</u>	
Delivered By: (Circle One)				Observed Temp. °C		Corrected Temp. °C		Sample Condition		Cool		Intact		CHECKED BY: (Initials)		Turnaround Time		Thermometer ID #		Correction Factor		Bacteria (only)		Sample Condition		Cool		Intact		Observed Temp. °C		Corrected Temp. °C													
Sampler - UPS - Bus - Other:				Corrected Temp. °C		Corrected Temp. °C		Cool		Intact		Cool		Intact		CHECKED BY: (Initials)		Turnaround Time		Thermometer ID #		Correction Factor		Bacteria (only)		Sample Condition		Cool		Intact		Observed Temp. °C		Corrected Temp. °C											
REMARKS: <u>NA0931035555061 - NA093400854443</u>																																													
All Results are emailed. Please provide Email address: <u>HGreen@ensolum.com</u>																																													
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:																																													
Cardinal cannot accept verbal changes. Please email changes to <u>celey.keene@cardinallabsnm.com</u>																																													



Page 32 of 32

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

June 13, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 10H - 13H, 34H - 37H

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 13:56.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/07/2024
Reported: 06/13/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 34 A 4.25 (H243276-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	06/11/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/07/2024
Reported: 06/13/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 14 A 1.25 (H243276-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTX	<0.300	0.300	06/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/11/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	387	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	195	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/07/2024
Reported: 06/13/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 19 0-1' (H243276-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	0.077	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/11/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 06/07/2024
Reported: 06/13/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 20 0-1' (H243276-04)

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	06/11/2024	ND	1.82	90.8	2.00	2.11		
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/11/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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: 06/07/2024
Reported: 06/13/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 21 0-1' (H243276-05)

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	06/11/2024	ND	1.82	90.8	2.00	2.11		
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273		
Total BTEX	<0.300	0.300	06/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/11/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 102 % 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: 06/07/2024
Reported: 06/13/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 22 0-1' (H243276-06)

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	06/11/2024	ND	1.82	90.8	2.00	2.11		
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273		
Total BTEx	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/11/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	77.7	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	21.8	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

July 05, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 10H - 13H, 34H - 37H

Enclosed are the results of analyses for samples received by the laboratory on 06/28/24 14:55.

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

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: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 0-5' (H243906-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2024	ND	2.10	105	2.00	2.27	
Toluene*	<0.050	0.050	07/04/2024	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.23	111	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.86	114	6.00	1.88	
Total BTX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	96.0	16.0	07/05/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	204	102	200	2.14	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	210	105	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 09 0-4' (H243906-02)

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	07/04/2024	ND	2.10	105	2.00	2.27		
Toluene*	<0.050	0.050	07/04/2024	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.23	111	2.00	1.58		
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.86	114	6.00	1.88		
Total BTEX	<0.300	0.300	07/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	64.0	16.0	07/05/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	204	102	200	2.14	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	210	105	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 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: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 41A 5' (H243906-03)

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	07/04/2024	ND	2.10	105	2.00	2.27		
Toluene*	<0.050	0.050	07/04/2024	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.23	111	2.00	1.58		
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.86	114	6.00	1.88		
Total BTEX	<0.300	0.300	07/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	2640	16.0	07/05/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 43A 5' (H243906-04)

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	07/04/2024	ND	2.10	105	2.00	2.27	
Toluene*	<0.050	0.050	07/04/2024	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.23	111	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.86	114	6.00	1.88	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	3000	16.0	07/05/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 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: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 30A 4' (H243906-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2024	ND	1.99	99.5	2.00	2.10	
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851	
Total BTX	<0.300	0.300	07/04/2024	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	1250	16.0	07/05/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 31A 4' (H243906-06)

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	07/04/2024	ND	1.99	99.5	2.00	2.10		
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805		
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851		
Total BTEX	<0.300	0.300	07/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	944	16.0	07/05/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 18A 4' (H243906-07)

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	07/04/2024	ND	1.99	99.5	2.00	2.10	
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851	
Total BTEX	<0.300	0.300	07/04/2024	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	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 19C 4' (H243906-08)

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	07/04/2024	ND	1.99	99.5	2.00	2.10	
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851	
Total BTEX	<0.300	0.300	07/04/2024	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	336	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 05 0-4' (H243906-09)

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	07/04/2024	ND	1.99	99.5	2.00	2.10	
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 20A 4' (H243906-10)

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	07/04/2024	ND	1.99	99.5	2.00	2.10	
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851	
Total BTEX	<0.300	0.300	07/04/2024	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	304	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 21A 3' (H243906-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2024	ND	1.99	99.5	2.00	2.10	
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851	
Total BTX	<0.300	0.300	07/04/2024	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	368	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 22A 3' (H243906-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2024	ND	1.99	99.5	2.00	2.10		
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805		
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851		
Total BTEx	<0.300	0.300	07/04/2024	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	448	16.0	07/05/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 37A 5' (H243906-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2024	ND	1.99	99.5	2.00	2.10	
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851	
Total BTEX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 38A 5' (H243906-14)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2024	ND	1.99	99.5	2.00	2.10	
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52	
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851	
Total BTX	<0.300	0.300	07/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	07/05/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 40A 5' (H243906-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2024	ND	1.99	99.5	2.00	2.10		
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805		
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851		
Total BTEx	<0.300	0.300	07/04/2024	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	2140	16.0	07/05/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/28/2024
Reported: 07/05/2024
Project Name: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Location: BTA (32.108028,-103.553151)

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 45A 5' (H243906-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2024	ND	1.99	99.5	2.00	2.10		
Toluene*	<0.050	0.050	07/04/2024	ND	2.08	104	2.00	1.52		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.12	106	2.00	0.805		
Total Xylenes*	<0.150	0.150	07/04/2024	ND	6.25	104	6.00	0.851		
Total BTEx	<0.300	0.300	07/04/2024	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	2110	16.0	07/05/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2024	ND	219	109	200	2.37	
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	214	107	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Hadlie Green

P.O. #:

Address: 3122 National Parks Hwy

Company: BTA Oil Products

City: Carlsbad State: NM Zip: 88220

Attn: Ray Ramos

Phone #: 4325578845 Fax #:

Address:

Project #: 03C2012038 Project Owner:

City:

Project Name: Rojo 10-13H, 34-37H

State: Zip:

Project Location: 32.108028, -103.553151

Phone #:

Sampler Name: Jirel Santillana

Fax #:

FOR LAB USE ONLY

MATRIX PRESERV

SAMPLING

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride

BTEX

TPH

US

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Relinquished By:

Date: 6/28/24
Time: 1455
Received By: Speedie

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

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 6/28/24
Time: 1455
Received By: Speedie

REMARKS: Incident # NA992313055442

Delivered By: (Circle One)

Observed Temp. °C: 28.8

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Standard Rush ☒

Thermometer ID #449

Correction Factor 0.5°C

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

Observed Temp. °C Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Standard Rush ☒

Thermometer ID #449

Correction Factor 0.5°C

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

Observed Temp. °C Corrected Temp. °C

FORM 000-R-3.2 10/01/21

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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 #: 03C2012038 Project Owner:

Project Name: Rojo 10-13H, 34-37H

Project Location: 32.108028, -103.553151

Sample Name: Orcl Sattilana

BILL TO

P.O. #:

Company: BTA 0.1 Products

Attn: Ray Ramos

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST									
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
7	FS19A	4'	C	1			X				6/25/24	1427	X	Chloride								
8	FS19C	4'									6/25/24	1436	X	BTEX								
10	FS20A	0-4'									6/26/24	1137										
11	FS21A	3'									6/26/24	1140										
12	FS22A	3'									6/26/24	1142										
13	FS37A	5'									6/26/24	1300										
14	FS38A	5'									6/26/24	1302										
15	FS40A	5'									6/26/24	1452										
16	FS45A	5'									6/26/24	1449										

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Relinquished By:

Date: 6/28/24

Received By:

Time: 1455

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

All Results are emailed. Please provide Email address:

Remarks: hgreen@ensolum.com

Incident #: APP2313056442

Relinquished By:

Date:

Received By:

Time:

Delivered By: (Circle One)

Observed Temp. °C: 28.2

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Signature)

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID #113

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

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Yes ☐ No ☐

Corrected Temp. °C

FORM006 R 3.2 10/01/21

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

July 15, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 10H - 13H, 34H - 37H

Enclosed are the results of analyses for samples received by the laboratory on 07/09/24 15:02.

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/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS23A 3'	H244090-01	Soil	09-Jul-24 10:30	09-Jul-24 15:02
FS24A 4'	H244090-02	Soil	09-Jul-24 10:32	09-Jul-24 15:02
FS25A 4'	H244090-03	Soil	09-Jul-24 10:35	09-Jul-24 15:02
FS26A 4'	H244090-04	Soil	09-Jul-24 10:37	09-Jul-24 15:02
FS27A 4'	H244090-05	Soil	09-Jul-24 10:40	09-Jul-24 15:02
FS28A 4'	H244090-06	Soil	09-Jul-24 10:42	09-Jul-24 15:02
FS29A 4'	H244090-07	Soil	09-Jul-24 10:45	09-Jul-24 15:02
FS42A 5'	H244090-08	Soil	09-Jul-24 12:12	09-Jul-24 15:02
FS56A 4'	H244090-09	Soil	09-Jul-24 12:16	09-Jul-24 15:02
FS57A 4'	H244090-10	Soil	09-Jul-24 12:18	09-Jul-24 15:02
FS58A 4'	H244090-11	Soil	09-Jul-24 12:20	09-Jul-24 15:02
SW10 0-4'	H244090-12	Soil	09-Jul-24 12:53	09-Jul-24 15:02

Samples received the same day of sampling on ice. Not enough time for samples to get to temperature of 6C or less.

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS23A 3'
H244090-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4071145	CT	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071103	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 4071103 JH 13-Jul-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane 108 % 48.2-134 4071021 MS 11-Jul-24 8015B

Surrogate: 1-Chlorooctadecane 121 % 49.1-148 4071021 MS 11-Jul-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS24A 4'
H244090-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	4071145	CT	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071103	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		4071103	JH	13-Jul-24	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane			111 %	48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			126 %	49.1-148		4071021	MS	11-Jul-24	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS25A 4'
H244090-03 (Soil)

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

Chloride	384		16.0	mg/kg	4	4071145	CT	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071103	JH	13-Jul-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		4071103	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %	48.2-134		4071021	MS	11-Jul-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			125 %	49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS26A 4'
H244090-04 (Soil)

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

Chloride	464		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071103	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4071103	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			119 %	49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS27A 4'
H244090-05 (Soil)

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

Chloride	1840		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071103	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		4071103	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			117 %	49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS28A 4'
H244090-06 (Soil)

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

Chloride	4080		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071103	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4071103	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane			105 %	48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS29A 4'
H244090-07 (Soil)

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

Chloride	6000		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071103	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071103	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4071103	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane			106 %	48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS42A 5'
H244090-08 (Soil)

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

Chloride	3920		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071104	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		4071104	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS56A 4'
H244090-09 (Soil)

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

Chloride	208		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071104	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		4071104	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane			96.7 %	48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS57A 4'
H244090-10 (Soil)

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

Chloride	528		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071104	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		110 %		71.5-134		4071104	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane		99.0 %		48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane		111 %		49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

FS58A 4'
H244090-11 (Soil)

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

Chloride	1730		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071104	JH	13-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		110 %		71.5-134		4071104	JH	13-Jul-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	

Surrogate: 1-Chlorooctane		99.7 %		48.2-134		4071021	MS	11-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane		113 %		49.1-148		4071021	MS	11-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

SW10 0-4'
H244090-12 (Soil)

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

Chloride	192		16.0	mg/kg	4	4071120	AC	11-Jul-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4071104	JH	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		113 %		71.5-134	4071104	JH	13-Jul-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4071021	MS	11-Jul-24	8015B	
Surrogate: 1-Chlorooctane		108 %		48.2-134	4071021	MS	11-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane		122 %		49.1-148	4071021	MS	11-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4071120 - 1:4 DI Water**Blank (4071120-BLK1)**

Prepared & Analyzed: 11-Jul-24

Chloride	ND	16.0	mg/kg							
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LCS (4071120-BS1)

Prepared & Analyzed: 11-Jul-24

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (4071120-BSD1)

Prepared & Analyzed: 11-Jul-24

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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Batch 4071145 - 1:4 DI Water**Blank (4071145-BLK1)**

Prepared & Analyzed: 11-Jul-24

Chloride	ND	16.0	mg/kg							
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LCS (4071145-BS1)

Prepared & Analyzed: 11-Jul-24

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (4071145-BSD1)

Prepared & Analyzed: 11-Jul-24

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4071103 - Volatiles**Blank (4071103-BLK1)**

Prepared: 11-Jul-24 Analyzed: 13-Jul-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	71.5-134			

LCS (4071103-BS1)

Prepared: 11-Jul-24 Analyzed: 13-Jul-24

Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.01	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89-129			
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125			
Total Xylenes	6.05	0.150	mg/kg	6.00		101	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	71.5-134			

LCS Dup (4071103-BSD1)

Prepared: 11-Jul-24 Analyzed: 13-Jul-24

Benzene	1.90	0.050	mg/kg	2.00		95.1	82.8-130	6.91	15.8	
Toluene	1.89	0.050	mg/kg	2.00		94.5	86-128	6.45	15.9	
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.8	85.9-128	6.44	16	
m,p-Xylene	3.78	0.100	mg/kg	4.00		94.5	89-129	6.52	16.2	
o-Xylene	1.88	0.050	mg/kg	2.00		94.0	86.1-125	7.04	16.7	
Total Xylenes	5.66	0.150	mg/kg	6.00		94.3	88.2-128	6.69	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	71.5-134			

Batch 4071104 - Volatiles**Blank (4071104-BLK1)**

Prepared: 11-Jul-24 Analyzed: 13-Jul-24

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

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4071104 - Volatiles**Blank (4071104-BLK1)**

Prepared: 11-Jul-24 Analyzed: 13-Jul-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0557		mg/kg	0.0500		111	71.5-134			

LCS (4071104-BS1)

Prepared: 11-Jul-24 Analyzed: 13-Jul-24

Benzene	2.12	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.28	0.050	mg/kg	2.00		114	86-128			
Ethylbenzene	2.32	0.050	mg/kg	2.00		116	85.9-128			
m,p-Xylene	4.84	0.100	mg/kg	4.00		121	89-129			
o-Xylene	2.29	0.050	mg/kg	2.00		115	86.1-125			
Total Xylenes	7.13	0.150	mg/kg	6.00		119	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0523		mg/kg	0.0500		105	71.5-134			

LCS Dup (4071104-BSD1)

Prepared: 11-Jul-24 Analyzed: 13-Jul-24

Benzene	2.03	0.050	mg/kg	2.00		101	82.8-130	4.48	15.8	
Toluene	2.19	0.050	mg/kg	2.00		110	86-128	3.83	15.9	
Ethylbenzene	2.24	0.050	mg/kg	2.00		112	85.9-128	3.36	16	
m,p-Xylene	4.71	0.100	mg/kg	4.00		118	89-129	2.72	16.2	
o-Xylene	2.23	0.050	mg/kg	2.00		112	86.1-125	2.86	16.7	
Total Xylenes	6.94	0.150	mg/kg	6.00		116	88.2-128	2.77	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: ROJO 10H - 13H, 34H - 37H
Project Number: 03C2012038
Project Manager: HADLIE GREEN
Fax To:

Reported:
15-Jul-24 13:59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4071021 - General Prep - Organics**Blank (4071021-BLK1)**

Prepared: 10-Jul-24 Analyzed: 11-Jul-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.7	48.2-134			
Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	49.1-148			

LCS (4071021-BS1)

Prepared: 10-Jul-24 Analyzed: 11-Jul-24

GRO C6-C10	188	10.0	mg/kg	200		93.8	66.4-123			
DRO >C10-C28	189	10.0	mg/kg	200		94.5	66.5-118			
Total TPH C6-C28	377	10.0	mg/kg	400		94.1	77.6-123			
Surrogate: 1-Chlorooctane	48.2		mg/kg	50.0		96.5	48.2-134			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	49.1-148			

LCS Dup (4071021-BSD1)

Prepared: 10-Jul-24 Analyzed: 11-Jul-24

GRO C6-C10	188	10.0	mg/kg	200		94.2	66.4-123	0.432	17.7	
DRO >C10-C28	184	10.0	mg/kg	200		92.2	66.5-118	2.44	21	
Total TPH C6-C28	373	10.0	mg/kg	400		93.2	77.6-123	1.00	18.5	
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	48.2-134			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	49.1-148			

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Notes and Definitions

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST							
Project Manager: Hadlie Green				P.O. #:											
Address: 31212 National Parks Hwy				Company: BTA Oil Producers											
City: Carlsbad				Attn: Ray Ramos											
Phone #: 4325578895				Address:											
Project #: 03C2012038				City:											
Project Name: Rojo 10-13H, 34-37H				State:											
Project Location: 32.108028,-103.553151				Phone #:											
Sampler Name: Uriel Santillana				Fax #:											
FOR LAB USE ONLY															
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
										GROUNDWATER					
										WASTEWATER					
										SOIL					
										OIL					
										SLUDGE					
										OTHER :					
										ACID/BASE:					
										ICE / COOL					
										OTHER :					
										DATE		TIME			
H244090		FS 23 A		3'		C		1		7/9/24		1030		X Chloride	
2		FS 24 A		4'								1032		X TPH	
3		FS 25 A		4'								1035		X BTEX	
4		FS 26 A		4'								1037			
5		FS 27 A		4'								1040			
6		FS 28 A		4'								1042			
7		FS 29 A		4'								1045			
8		FS 42 A		5'								1212			
9		FS 56 A		4'								1216			
10		FS 57 A		4'								1218			
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Relinquished By: <u>U. Santillana</u>				Date: 7/9/24		Received By: <u>APR</u>		Date: 7/9/24		Time: 1502		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		All Results are emailed. Please provide Email address: Hygreen@ensolum.com	
Relinquished By: <u>U. Santillana</u>				Date: 7/9/24		Received By: <u>APR</u>		Date: 7/9/24		Time: 1502		REMARKS: Incident #: nAPP2313055442			
Delivered By: (Circle One)				Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: 48-72 HRS		Standard <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/>		Cool Intact <input type="checkbox"/>	
Sampler - UPS - Bus - Other:				Corrected Temp. °C		Cool Intact <input type="checkbox"/>		APR		Thermometer ID: #443		Cool Intact <input type="checkbox"/>		Observed Temp. °C	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

From: [Hadlie Green](#)
To: [Wells, Shelly, EMNRD](#)
Subject: [EXTERNAL] RE: NAPP2313055442 ROJO 10H-13H, 24H-37H
Date: Thursday, August 1, 2024 7:19:51 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Howdy Shelly,

SW16, SW17, and SW18 were collected from a bench in the excavation. Some of the areas were sloped so the sidewalls were less than 4 feet bgs. The * denotes all samples off pad until 4 feet bgs. All sidewalls off pad should have a * and all samples excluding the 4 foot sample depths should have a * to denote the Reclamation Requirements. There may have been a few * missed during the reviews.

I hope this helps!



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC

in f 

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, July 31, 2024 4:58 PM

To: Hadlie Green <hgreen@ensolum.com>

Subject: NAPP2313055442 ROJO 10H-13H, 24H-37H

[**EXTERNAL EMAIL**]

Hi Hadlie,

I am reviewing the submitted remediation closure report for NAPP2313055442 ROJO 10H-13H, 24H-37H and had a few questions for you regarding the remediation. In the report it says SW16, SW17 and SW18 were collected from 0-1 feet however the floor samples in that part of the excavation say they were collected at 4'. Can you explain this? Also the * is used in Table 1 beside some of the samples collected off pad and not others. Areas not reasonably needed for production or drilling activities will need to be reclaimed and revegetated as early as practicable. Is there a reason it is used beside some of the samples off pad but not others?

I look forward to hearing what you have to say,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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QUESTIONS

Action 368057

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	368057
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2313055442
Incident Name	NAPP2313055442 ROJO 10H-13H, 24H-37H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2130133926] Rojo 10-13 34-37

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROJO 10H-13H, 24H-37H
Date Release Discovered	04/27/2023
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 650 BBL Recovered: 130 BBL Lost: 520 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 368057

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	368057
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 07/29/2024
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QUESTIONS, Page 3

Action 368057

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	368057
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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
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.	
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)	24000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1752
GRO+DRO	(EPA SW-846 Method 8015M)	1334
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	05/19/2023
On what date will (or did) the final sampling or liner inspection occur	07/09/2024
On what date will (or was) the remediation complete(d)	07/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	23000
What is the estimated volume (in cubic yards) that will be reclaimed	3400
What is the estimated surface area (in square feet) that will be remediated	23000
What is the estimated volume (in cubic yards) that will be remediated	3400

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 368057

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	368057
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 07/29/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 368057

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	368057
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 368057

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	368057
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	360839
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/09/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	25350

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	23000
What was the total volume (cubic yards) remediated	3400
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	23000
What was the total volume (in cubic yards) reclaimed	3400
Summarize any additional remediation activities not included by answers (above)	n/a

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 07/29/2024
--	---

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QUESTIONS, Page 7

Action 368057

QUESTIONS (continued)

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	Action Number:	368057
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 368057

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
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CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/1/2024