



April 15, 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
Mesa B #25
Incident Number nAPP2112744758
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at Mesa B #25 (Site). The purpose of the Site activities was to assess for the presence or absence of impacts to soil resulting from a historical release of produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Report*, describing Site assessment, excavation, and soil sampling activities that have occurred and requesting closure for Incident Number nAPP2112744758.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 7, Township 26 South, Range 33 East, in Lea County, New Mexico (32.06395°, -103.604785°) and is associated with oil and gas exploration and production operations on private land owned by AE&J Royalties, LLC.

On March 31, 2021, a valve and choke washed out on a sand trap, resulting in the tank to overflow and release approximately 90 barrels (bbls) of produced water onto the surface of the pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 74 bbls of produced water were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 7, 2021. The release was assigned Incident Number nAPP2112744758.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 feet to 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04547 POD 1, located just over a half mile south of the Site. The groundwater well has a reported depth to groundwater of 89.5 feet bgs and a total depth of 112 feet bgs. An additional 4 wells located in all cardinal directions, within

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a 3-mile radius, from the Site indicate depth to groundwater is greater than 55 feet bgs. Of those, three wells confirm depth to groundwater is greater than 100 feet bgs. As such, BTA submitted a Closure Criteria Variance Request on December 5, 2023 and included the nearby groundwater data. The NMOCD approved the Closure Criteria Variance on December 6, 2023. All wells used for depth to groundwater determination are depicted on Figure 1. The associated well records and Closure Criteria Variance Correspondence are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 1,145 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization and the approved Closure Criteria Variance, 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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between May 2, 2023, and January 30, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nineteen assessment soil samples (SS01 through SS19) were collected within and around the release at depths ranging from 0.25 feet to 4 feet bgs, to assess for the presence or absence of impacted soil resulting from the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site visits and a photographic log is included as Appendix B. Field screening results and observations for the assessment soil samples were logged on lithologic/soil sampling logs, which are included in Appendix C. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for assessment soil samples SS01 through SS03, SS05, and SS06 indicated TPH concentrations exceeded the Site Closure Criteria at the ground surface. Laboratory analytical results for assessment soil samples SS07 through SS19 indicated all COC concentrations were complaint with the Site Closure Criteria. Excavation activities were warranted to address the elevated TPH concentrations.

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EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between July 17, 2023, and February 16, 2024, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for soil samples SS01 through SS03, SS05, and SS06. Excavation activities were performed utilizing a hydrovac and back-hoe. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 2 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the excavation extents. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS29 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Confirmation soil samples SW 1 through SW 6 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for the excavation soil samples FS01 through FS29, and SW 1 through SW 5 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for soil sample SW 6 indicated the chloride concentration exceeded the most stringent Table I Closure Criteria. Additional soil was removed in the vicinity of SW 6 and subsequent soil sample SW 7 was collected from the sidewall of the excavation at depths ranging from the ground surface to 1-foot bgs. Laboratory analytical results for soil sample SW 7 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

The excavation area measured approximately 5,585 square feet. A total of approximately 400 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land, LLC in Carlsbad, New Mexico.

CLOSURE REQUEST

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

Excavation of impacted soil has mitigated impacts at this Site. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2112744758. Notifications submitted to the NMOCD are included in Appendix E.

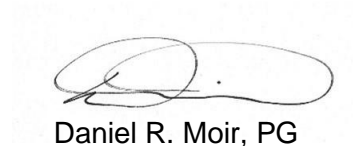
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If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Daniel R. Moir, PG
Senior Managing Geologist

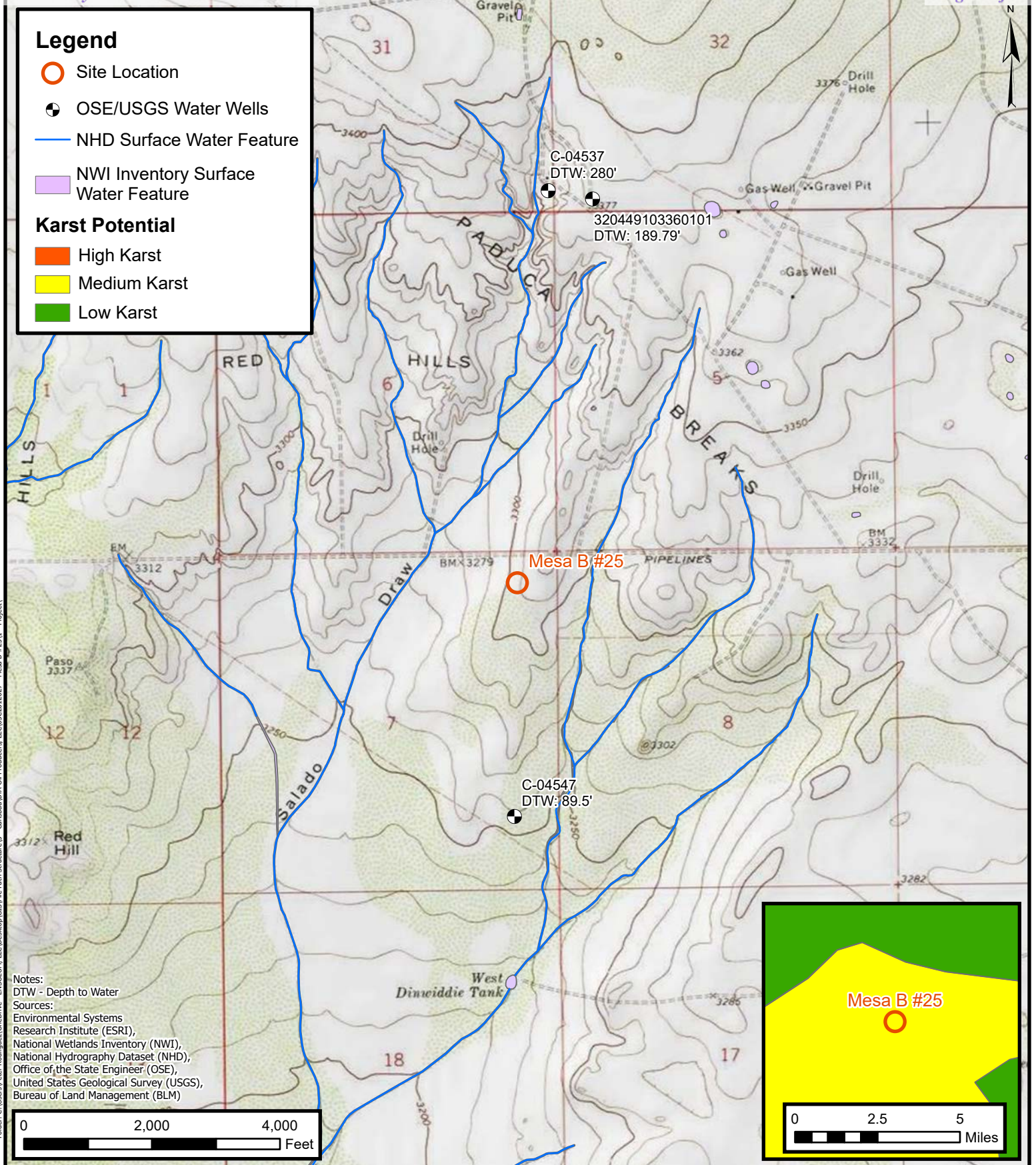
cc: Ray Ramos, BTA
Kelton Beaird, BTA
AE&J Royalties, LLC

Appendices:

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



FIGURES



Site Receptor Map

BTA Oil Producers, LLC

Mesa B #25

Incident Number: nAPP2112744758

Unit A, Section 7, T26S, Range 33E

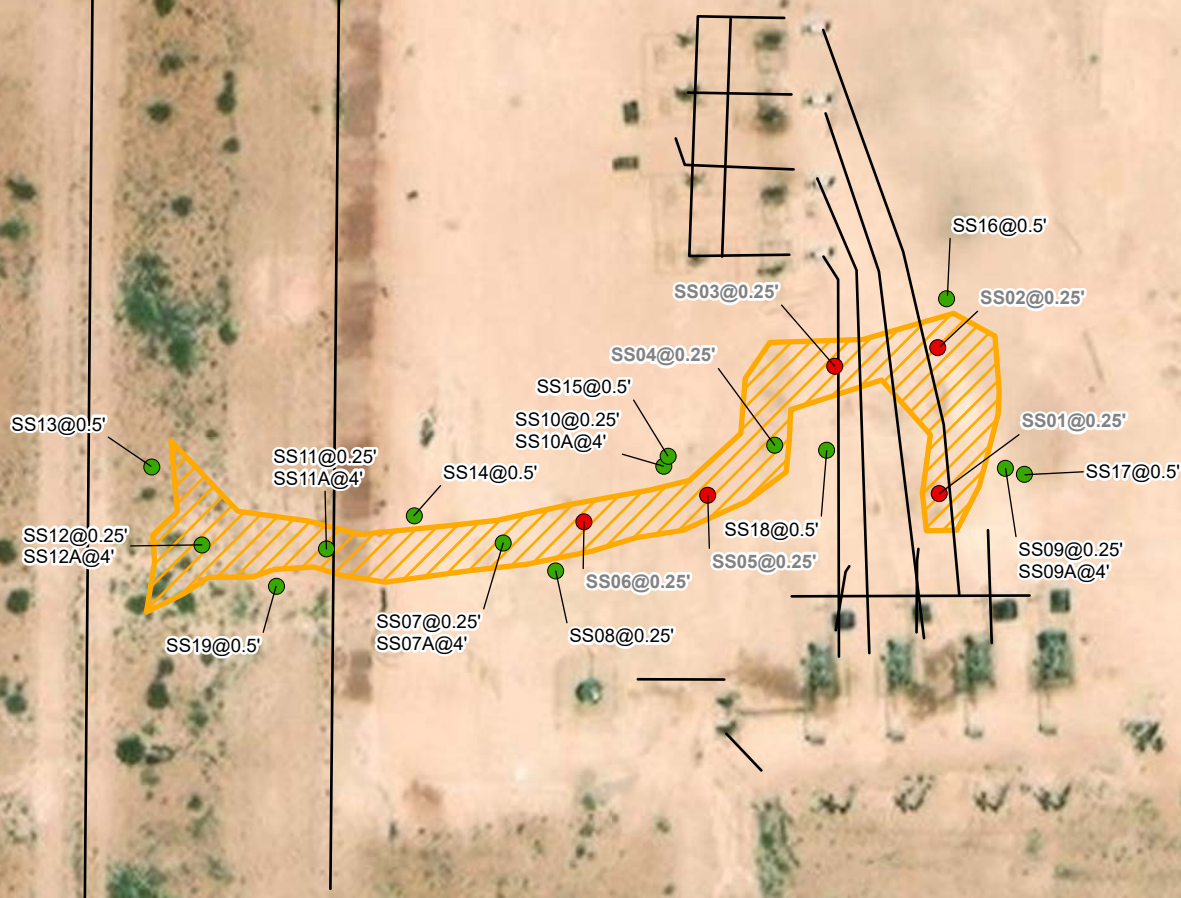
Lea County, New Mexico

FIGURE

1

Legend

- Assessment Sample Location in Compliance with Closure Criteria
- Assessment Sample Location with Concentrations Exceeding Closure Criteria
- Utilites
- ▨ Release Extent



Notes:
Sample ID @ Depth Below Ground Surface.

0 15 30 60 90 120
Feet

Sources:
Environmental Systems Research Institute (ESRI)



Assessment Soil Sample Locations

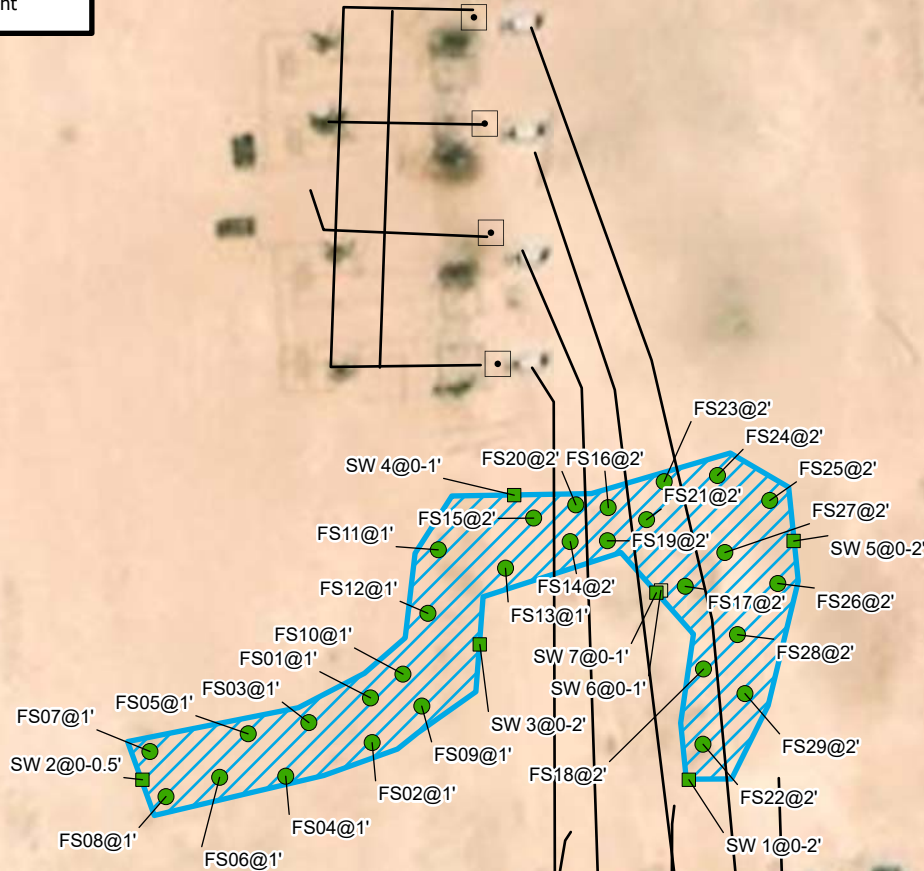
BTA Oil Producers, LLC
Mesa B #25
Incident Number: nAPP2112744758
Unit A, Section 7, T26S, Range 33E
Lea County, New Mexico

FIGURE

2

Legend

- Excavation Sidewall Sample Compliant with Site Closure Criteria
- Excavation Floor Sample Compliant with Site Closure Criteria
- Excavation Sidewall Sample Removed During Excavation Activities
- Wellhead
- Pipeline/Line/Utility
- Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.

0 12.5 25 50 75 100
Feet

Sources: Environmental Systems Research Institute (ESRI)

Excavation Soil Sample Locations

BTA Oil Producers, LLC

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Unit A, Section 7, T26S, Range 33E

NA, Lea County, New Mexico

FIGURE

3





TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa B #25
BTA Oil Producers, LLC
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Assessment Soil Samples										
SS01	05/02/2023	0.25	<0.050	<0.300	<100	12,100	5,640	12,100	17,740	240
SS02	05/02/2023	0.25	<0.050	<0.300	<100	30,100	14,100	30,100	44,200	448
SS03	05/02/2023	0.25	<0.050	<0.300	<10.0	3,450	4,280	3,450	7,730	848
SS04	05/02/2023	0.25	<0.050	<0.300	<10.0	547	1,670	547	2,217	208
SS05	05/02/2023	0.25	<0.050	<0.300	<10.0	7,230	3,120	7,230	10,350	8,260
SS06	05/02/2023	0.25	<0.050	<0.300	<10.0	1,230	2,970	1,230	4,200	320
SS07	05/02/2023	0.25	<0.050	<0.300	<10.0	226	109	226	335	80.0
SS07A	07/17/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS08	05/02/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	05/02/2023	0.25	<0.050	<0.300	<10.0	881	399	881	1,280	80.0
SS09A	07/17/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS10	05/02/2023	0.25	<0.050	<0.300	<10.0	474	202	474	676	128
SS10A	07/17/2023	4	<0.050	<0.300	<10.0	16.4	<10.0	16.4	16.4	176
SS11	07/17/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS11A	07/17/2023	4	<0.050	<0.300	<10.0	31.6	12.0	31.6	43.6	32.0
SS12	07/17/2023	0.25	<0.050	<0.300	<10.0	19.1	<10.0	19.1	19.1	48.0
SS12A	07/17/2023	4	<0.050	<0.300	<10.0	27.2	<10.0	27.2	27.2	32.0
SS13	01/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14	02/16/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS15	01/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
SS16	02/16/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS17	01/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SS18	01/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS19	01/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Mesa B #25
 BTA Oil Producers, LLC
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS01	07/17/2023	1	<0.050	<0.300	<10.0	91.8	61.6	91.8	153	544
FS02	07/17/2023	1	<0.050	<0.300	<10.0	34.5	13.9	34.5	48.4	1,410
FS03	07/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS04	07/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
FS05	07/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
FS06	07/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,460
FS07	07/17/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
FS08	07/17/2023	1	<0.050	<0.300	<10.0	<10.0	11.1	<10.0	11.1	16.0
FS09	01/30/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS10	01/30/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS11	01/30/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,280
FS12	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS13	01/30/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,520
FS14	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS15	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS16	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS17	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS18	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS19	01/16/2024	2	<0.050	<0.300	<10.0	284	418	284	702	416
FS20	01/16/2021	2	<0.050	<0.300	<10.0	158	168	158	326	544
FS21	01/16/2024	2	<0.050	<0.300	<10.0	242	339	242	581	2,960
FS22	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS23	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS24	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS25	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
FS26	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
FS27	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS28	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS29	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa B #25
BTA Oil Producers, LLC
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Sidewall Soil Samples										
SW 1	01/16/2024	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
SW 2	01/30/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
SW 3	02/16/2024	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW 4	01/30/2024	0 - 1	<0.050	<0.300	<10.0	43.7	<10.0	43.7	43.7	560
SW 5	02/16/2024	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW 6	01/30/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
SW 7	02/16/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicates sample has been excavated.



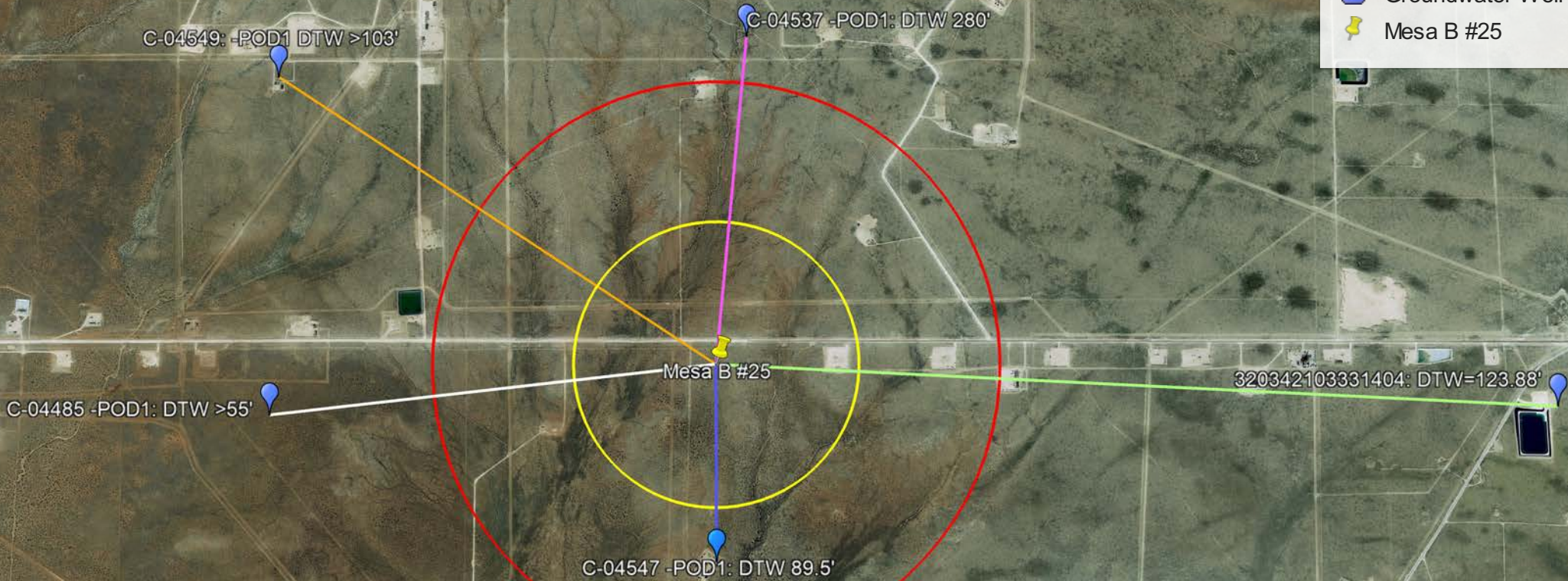
APPENDIX A

Referenced Well Records and Closure Criteria Variance Approval

Mesa B #25

nAPP2112744758
DTW Investigation

- 0.5 Mile Radius
- 0.69 Miles
- 1 Mile Radius
- 1.16 Miles
- 1.58 Miles
- 1.86 Miles
- 2.96 miles
- Groundwater Well
- Mesa B #25





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DTI AUG 2 2021 PM4:44

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (MW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4547			
	WELL OWNER NAME(S) BTA Oil Producers				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 104 S. Pecos St.				CITY Midland	STATE TX	ZIP 79701	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 3	SECONDS 14.34	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	36	16.96	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE SE Sec. 07 T26S R33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 07/15/2021		DRILLING ENDED 07/15/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 112	DEPTH WATER FIRST ENCOUNTERED (FT) unknown	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 89.5		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	21	±8.5	Boring- HSA	--	--	--	--
	21	112	±3.5	Boring- Air Rotary	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

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

FILE NO. C-4547	POD NO. 1	TRN NO. 698291
LOCATION 26S-33E-07 4-4-2	WELL TAG ID NO. NA	PAGE 1 OF 2

DSE DTI AUG 2 2021 PM4:44

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Caliche, Consolidated, White	Y ✓ N	
	4	44	40	Sand, Fine-grained, poorly graded, with caliche gravel, Redish Brown	Y ✓ N	
	44	51	7	Clay, Stiff, Dark Brown,	Y ✓ N	
	51	103	52	Sandstone, Fine-grained, poorly graded, Tan Brown	✓ Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring plugged using tremie pipe to total depth and landed cement slurry of <6.0 gallons of water per 94 lbs sack of Portland TYPE I/II Neat Cement. See attached Plugging Record	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Carmelo Trevino	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins	07/29/2021
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO. C-4547	POD NO. 1	TRN NO.	
LOCATION 26S-33E-07 4-4-2	WELL TAG ID NO. NA	PAGE 2 OF 2	

2021-07-28_C-4547_POD1_OSE_Well Record and Log_mesa1-for sign

Final Audit Report

2021-07-29

Created: 2021-07-29

OSE DJT AUG 2 2021 PM4:44

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAA3aQOFUKeCXoHbozKpK1XeoMdl53lwclm

"2021-07-28_C-4547_POD1_OSE_Well Record and Log_mesa1-for sign" History

 Document created by Lucas Middleton (lucas@atkinseng.com)

2021-07-29 - 8:40:54 PM GMT- IP address: 69.21.248.123

 Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2021-07-29 - 8:41:43 PM GMT

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 Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2021-07-29 - 8:44:00 PM GMT - Time Source: server- IP address: 64.90.153.232

 Agreement completed.

2021-07-29 - 8:44:00 PM GMT



WELL RECORD & LOG

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OSE 07 JUN 21 2021 #10113

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4537 POD1		WELL TAG ID NO. 20E6C		OSE FILE NO(S). C-4537			
	WELL OWNER NAME(S) BASIN PROPERTIES RANCHES LLC					PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 3300 N A STREET, BLDG 1, STE 220					CITY MIDLAND	STATE TX	
						ZIP 79705		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 04	SECONDS 50.8	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	36	10.7	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1706		NAME OF LICENSED DRILLER Bryce Wallace			NAME OF WELL DRILLING COMPANY Elite Drillers Corporation		
	DRILLING STARTED 06/11/21	DRILLING ENDED 06/12/21	DEPTH OF COMPLETED WELL (FT) 500		BORE HOLE DEPTH (FT) 500	DEPTH WATER FIRST ENCOUNTERED (FT) 280		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 280		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	12 3/4	STEEL	N/A	8.28	.337	
	0	300	7 7/8	SDR17 PVC	SPLINE	4.3	SDR17	
	300	500	7 7/8	SDR17 PVC	SPLINE	4.3	SDR17	.032
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	12 3/4	CEMENT	10	TOP FILL		
	0	20	7 7/8	CEMENT	6	TOP FILL		
	300	500	7 7/8	8/16 SILICA SAND	46	TOP FILL		

FOR OSE INTERNAL USE

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

FILE NO.	C-4537	POD NO.	1	TRN NO.	095385
LOCATION	SHK	255.33E.31.444	WELL TAG ID NO.	20E6C	PAGE 1 OF 2



WELL RECORD & LOG

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1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04485		OWL 362		WELL TAG ID NO. NA		OSE FILE NO(S) C-04485				
	WELL OWNER NAME(S) KJ ENVIRONMENTAL						PHONE (OPTIONAL) 214-287-5875				
	WELL OWNER MAILING ADDRESS 500 MOSSELEY ROAD						CITY CROSS ROADS				
							STATE TX				
							ZIP 76227				
WELL LOCATION (FROM GPS)	DEGREES		MINUTES		SECONDS						
	LATITUDE		3548560		N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND				
	LONGITUDE		629271		W		* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE											
2. DRILLING & CASING INFORMATION	LICENSE NO. WD 1186		NAME OF LICENSED DRILLER RODNEY HAMMER				NAME OF WELL DRILLING COMPANY ENVIRO-DRILL, INC.				
	DRILLING STARTED 10/05/2020		DRILLING ENDED 10/06/2020		DEPTH OF COMPLETED WELL (FT) 55'		BORE HOLE DEPTH (FT) 55'				
	COMPLETED WELL IS:		<input type="checkbox"/> ARTESIAN		<input checked="" type="checkbox"/> DRY HOLE		<input type="checkbox"/> SHALLOW (UNCONFINED)				
	DRILLING FLUID:		<input type="checkbox"/> AIR		<input type="checkbox"/> MUD		ADDITIVES - SPECIFY:				
	DRILLING METHOD:		<input checked="" type="checkbox"/> ROTARY		<input type="checkbox"/> HAMMER		<input type="checkbox"/> CABLE TOOL				
							<input checked="" type="checkbox"/> OTHER - SPECIFY: HSA				
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)		CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE (add coupling diameter)				
	FROM	TO									
	55	45	8"	Screen	FJT	2"	2"	.010			
	45	0	8"	Blank	11	11	11	11			
3. ANNULAR MATERIAL		DEPTH (feet bgl)		BORE HOLE DIAM. (inches)		LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)		METHOD OF PLACEMENT	
FROM		TO									
55		43		8"		Sand 10/20		10		tremie	
43		41		8"		Hole Plug		1			
41		0		8"		Grout		100 gal.		↓	

FOR OSE INTERNAL USE

FILE NO. **C-02599** WR-20 WELL RECORD & LOG (Version 06/30/17)
 LOCATION **2-2-4** POD NO. **2N-33E-10** TRN NO. **693367**
 WELL TAG ID NO. **693367** PAGE 1 OF 2

603 AL-PLANNED OFFICE

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WELL RECORD & LOG

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OSE DJT AUG 2 2021 PM 4:45

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (MW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4549			
	WELL OWNER NAME(S) BTA Oil Producers				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 104 S. Pecos St.				CITY Midland	STATE TX	ZIP 79701	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 4	SECONDS 40.92	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	37	53.68	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NW NW Sec. 11 T26S R32E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 07/14/2021		DRILLING ENDED 07/14/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 103	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 103		±8.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		

FOR OSE INTERNAL USE

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


FILE NO. C-4549	POD NO. 1	TRN NO. 698318
LOCATION 26S-32E-11	1.1.1	WELL TAG ID NO. NA -

PAGE 1 OF 2

OSE DTI AUG 2 2021 PM4:45

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Caliche, Consolidated, White	Y ✓ N	
	4	9	5	Caliche, Consolidated, with fine-grained, Tan	Y ✓ N	
	9	14	5	Caliche, Consolidated, White	Y ✓ N	
	14	19	5	Caliche, Consolidated, with fine-grained, Tan	Y ✓ N	
	19	69	50	Sand, Fine-grained poorly graded, with caliche, Tanish Brown	Y ✓ N	
	69	79	103	Clay, Stiff, High Plasticity, Dark Brown,	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
MISCELLANEOUS INFORMATION:			Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Carmelo Trevino			

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jackie D. Atkins _____ DATE	07/29/2021 _____ DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO. C-4549	POD NO. 1	TRN NO. 698318	
LOCATION 26S-32E-11	1.1.1	WELL TAG ID NO. NA	PAGE 2 OF 2



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Agency code = usgs
site_no list =

- 320342103331401

Minimum number of levels = 1
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USGS 320342103331401 26S.33E.03.444113

Lea County, New Mexico
Latitude 32°03'42", Longitude 103°33'14" NAD27
Land-surface elevation 3,334 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1970-12-07			D 62610		3221.09	NGVD29	P		Z	
1970-12-07			D 62611		3222.67	NAVD88	P		Z	
1970-12-07			D 72019	111.33			P		Z	
1976-01-08			D 62610		3221.62	NGVD29	1		Z	
1976-01-08			D 62611		3223.20	NAVD88	1		Z	
1976-01-08			D 72019	110.80			1		Z	
1981-03-24			D 62610		3222.20	NGVD29	P		Z	
1981-03-24			D 62611		3223.78	NAVD88	P		Z	
1981-03-24			D 72019	110.22			P		Z	
1986-03-04			D 62610		3219.42	NGVD29	1		Z	
1986-03-04			D 62611		3221.00	NAVD88	1		Z	
1986-03-04			D 72019	113.00			1		Z	
1991-06-12			D 62610		3219.42	NGVD29	1		Z	
1991-06-12			D 62611		3221.00	NAVD88	1		Z	
1991-06-12			D 72019	113.00			1		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1996-03-06			D	62610	3219.98	NGVD29	1		S	
1996-03-06			D	62611	3221.56	NAVD88	1		S	
1996-03-06			D	72019	112.44		1		S	
2001-02-27			D	62610	3220.02	NGVD29	1		S	
2001-02-27			D	62611	3221.60	NAVD88	1		S	
2001-02-27			D	72019	112.40		1		S	
2006-02-07	17:47 UTC		m	62610	3208.54	NGVD29	1		S	USGS
2006-02-07	17:47 UTC		m	62611	3210.12	NAVD88	1		S	USGS
2006-02-07	17:47 UTC		m	72019	123.88		1		S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments

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Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?



Page Contact Information: New Mexico Water Data Maintainer

Page Last Modified: 2023-12-05 15:18:37 EST

0.3 0.25 nadww02

From: [Velez, Nelson, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Kelton Beaird](#); [Tacoma Morrissey](#); [Aimee Cole](#)
Subject: Re: [EXTERNAL] BTA - Mesa B #25 (Incident Number nAPP2122744758) - Closure Criteria Variance Request
Date: Wednesday, December 6, 2023 10:51:56 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Outlook-lyby1eds.png](#)

[**EXTERNAL EMAIL**]

Good morning Hadlie,

Thank you for the correspondence. Your request for a Closure Criteria Variance to reflect groundwater 51' – 100' as shown in Table 1 of 19.15.29.12 NMAC is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Hadlie Green <hgreen@ensolum.com>
Sent: Tuesday, December 5, 2023 3:17 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Aimee Cole <acole@ensolum.com>
Subject: [EXTERNAL] BTA - Mesa B #25 (Incident Number nAPP2122744758) - Closure Criteria

Variance Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon Nelson,

I'd like to request a Closure Criteria Variance for a historical incident that occurred on March 31, 2021 at a BTA Oil Producers, LLC (BTA) Site Mesa B #25 (Incident Number nAPP2122744758; 32.06395, -103.604785).

A valve washout resulted in the release of approximately 90 barrels (bbls) of produced water. BTA immediately recovered approximately 74 bbls of produced water and completed an initial scrape of the saturated soil. BTA will vertically and laterally delineate the release per NMAC 19.15.29.

Attached is groundwater research from the area surrounding the release. All nearby USGS and NMOSE wells indicate depth to groundwater between 51 and 100 feet bgs or greater than 100 feet bgs. The nearest borehole with depth to groundwater data is located 0.69 miles south of the release area and has a recorded depth to groundwater of 89.5' from July 2021.

Due to the regional depth to groundwater and the site being in medium potential karst area, BTA requests a Closure Criteria Variance to reflect groundwater 51' – 100' as shown in Table 1 of 19.15.29.12 NMAC.

Please let me know if you have any questions,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC

in f 



APPENDIX B

Photographic Log

**Photographic Log**

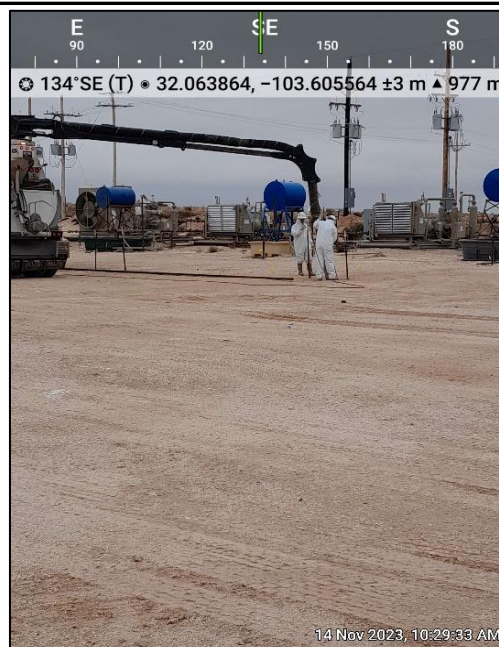
BTA Oil Producers, LLC

Mesa B #25

Incident Number nAPP2112744758



Photograph: 1 Date: 5/2/2023
Description: Initial assessment activities
View: Northwest



Photograph: 2 Date: 11/14/2023
Description: Hydrovac activities
View: Southeast



Photograph: 3 Date: 1/16/2024
Description: Excavation activities
View: West





Photograph: 4 Date: 1/16/2024
Description: Excavation activities
View: North





APPENDIX C


Lithologic Soil Sampling Logs

								Sample Name: SS07		Date: 5/2/2024					
								Site Name: Mesa B #25							
								Incident Number: nAPP2112744758							
								Job Number: 03C2012027							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe					
Coordinates: 32.0636652, -103.6057954								Hole Diameter: N/A		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; N-No															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	<168	7.1	N	SS07	0.25	0.25	CCHE	CALICHE, light tan, poorly sorted, some sand, no stain, no odor.							
D	<168	5.8	N			1	CCHE	SAA (Same as above)							
D	<168	2.3	N			2	CCHE	SAA, more sand							
D	<168	1.6	N			3	SP-SM	SAND, light brown, poorly sorted, abundant caliche gravel, no staining, no odor.							
D	<168	0.1	N	SS07A	4	4	SP-SM	SAA							
TD @ 4 ft bgs															

								Sample Name: SS09		Date: 5/2/2024					
								Site Name: Mesa B #25							
								Incident Number: nAPP2112744758							
								Job Number: 03C2012027							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe					
Coordinates: 32.0637379, -103.6051606								Hole Diameter: N/A		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; N-No															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	<168	55.6	N	SS09	0.25	0.25	CCHE	CALICHE, light tan, poorly sorted, some sand, no stain, no odor.							
D	<168	21.2	N			1	CCHE	SAA (Same as above)							
D	<168	22.3	N			2	CCHE	SAA, more sand							
D	<168	8.1	N			3	SP-SM	SAND, light brown, poorly sorted, abundant caliche gravel, no staining, no odor.							
D	<168	1.3	N	SS09A	4	4	SP-SM	SAA							
TD @ 4 ft bgs															

								Sample Name: SS10		Date: 5/2/2024			
								Site Name: Mesa B #25					
								Incident Number: nAPP2112744758					
								Job Number: 03C2012027					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe			
Coordinates: 32.0637447, -103.6055916								Hole Diameter: N/A		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; N-No													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	<168	47.2	N	SS10	0.25	0.25	CCHE	CALICHE, light tan, poorly sorted, some sand, no stain, no odor.					
D	<168	15.8	N			1	CCHE	SAA (Same as above)					
D	<168	6.6	N			2	CCHE	SAA, more sand					
D	<168	4.9	N			3	SP-SM	SAND, light brown, poorly sorted, abundant caliche gravel, no staining, no odor.					
D	<168	4.1	N	SS10A	4	4	SP-SM	SAA					
TD @ 4 ft bgs													

								Sample Name: SS11		Date: 5/2/2024	
								Site Name: Mesa B #25			
								Incident Number: nAPP2112744758			
								Job Number: 03C2012027			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe	
Coordinates: 32.0636608, -103.6060179								Hole Diameter: N/A		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; N-No											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	<168	0	N	SS11	0.25	0.25	CCHE	CALICHE, light tan, poorly sorted, some sand, no stain, no odor.			
D	<168	0	N			1	CCHE	SAA (Same as above)			
D	<168	2.1	N			2	CCHE	SAA, more sand			
D	<168	1.8	N			3	SP-SM	SAND, light brown, poorly sorted, abundant caliche gravel, no staining, no odor.			
D	<168	2.9	N	SS11A	4	4	SP-SM	SAA			
TD @ 4 ft bgs											

								Sample Name: SS12		Date: 5/2/2024					
								Site Name: Mesa B #25							
								Incident Number: nAPP2112744758							
								Job Number: 03C2012027							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe					
Coordinates: 32.0636670, -103.6061754								Hole Diameter: N/A		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; N-No															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	<168	3.2	N	SS12	0.25	0.25	CCHE	CALICHE, light tan, poorly sorted, some sand, no stain, no odor.							
D	<168	2.8	N			1	CCHE	SAA (Same as above)							
D	<168	1.2	N			2	CCHE	SAA, more sand							
D	<168	1.4	N			3	SP-SM	SAND, light brown, poorly sorted, abundant caliche gravel, no staining, no odor.							
D	<168	4.3	N	SS12A	4	4	SP-SM	SAA							
TD @ 4 ft bgs															



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

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

May 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #25

Enclosed are the results of analyses for samples received by the laboratory on 05/03/23 12:15.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS 01 0.25'	H232184-01	Soil	02-May-23 10:20	03-May-23 12:15
SS 02 0.25'	H232184-02	Soil	02-May-23 10:30	03-May-23 12:15
SS 03 0.25'	H232184-03	Soil	02-May-23 10:40	03-May-23 12:15
SS 04 0.25'	H232184-04	Soil	02-May-23 10:50	03-May-23 12:15
SS 05 0.25'	H232184-05	Soil	02-May-23 11:00	03-May-23 12:15
SS 06 0.25'	H232184-06	Soil	02-May-23 11:10	03-May-23 12:15
SS 07 0.25'	H232184-07	Soil	02-May-23 11:20	03-May-23 12:15
SS 08 0.25'	H232184-08	Soil	02-May-23 11:30	03-May-23 12:15
SS 09 0.25'	H232184-09	Soil	02-May-23 11:40	03-May-23 12:15
SS 10 0.25'	H232184-10	Soil	02-May-23 11:50	03-May-23 12:15

05/09/23 - I made revisions to the wrong work order and didn't catch it before sending out. This is the corrected report and will replace the one I sent earlier today 05/09/23.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 01 0.25'
H232184-01 (Soil)

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

Chloride	240		16.0	mg/kg	4	3050433	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3050334	JH/	05-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	71.5-134	3050334	JH/	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<100	100	mg/kg	10	3050330	MS	05-May-23	8015B
DRO >C10-C28*	12100	100	mg/kg	10	3050330	MS	05-May-23	8015B
EXT DRO >C28-C36	5640	100	mg/kg	10	3050330	MS	05-May-23	8015B

Surrogate: 1-Chlorooctane	116 %	48.2-134	3050330	MS	05-May-23	8015B
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Surrogate: 1-Chlorooctadecane	270 %	49.1-148	3050330	MS	05-May-23	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 02 0.25'
H232184-02 (Soil)

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

Chloride	448		16.0	mg/kg	4	3050433	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050334	JH/	05-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3050334	JH/	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<100		100	mg/kg	10	3050330	MS	05-May-23	8015B	
DRO >C10-C28*	30100		100	mg/kg	10	3050330	MS	05-May-23	8015B	
EXT DRO >C28-C36	14100		100	mg/kg	10	3050330	MS	05-May-23	8015B	

Surrogate: 1-Chlorooctane			128 %	48.2-134		3050330	MS	05-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			488 %	49.1-148		3050330	MS	05-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 03 0.25'
H232184-03 (Soil)

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

Chloride	848		16.0	mg/kg	4	3050434	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050334	JH/	05-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		71.5-134	3050334	JH/	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	23.5		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
DRO >C10-C28*	3450		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
EXT DRO >C28-C36	4280		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	

Surrogate: 1-Chlorooctane			119 %		48.2-134	3050330	MS	04-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			174 %		49.1-148	3050330	MS	04-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 04 0.25'
H232184-04 (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	3050434	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050334	JH/	05-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3050334	JH/	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
DRO >C10-C28*	547		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
EXT DRO >C28-C36	1670		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	

Surrogate: 1-Chlorooctane			112 %	48.2-134		3050330	MS	04-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			134 %	49.1-148		3050330	MS	04-May-23	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 05 0.25'
H232184-05 (Soil)

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

Chloride	8260		16.0	mg/kg	4	3050434	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050334	JH/	05-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3050334 JH/ 05-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
DRO >C10-C28*	7230		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
EXT DRO >C28-C36	3120		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	

Surrogate: 1-Chlorooctane 80.8 % 48.2-134 3050330 MS 04-May-23 8015B

Surrogate: 1-Chlorooctadecane 139 % 49.1-148 3050330 MS 04-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 06 0.25'
H232184-06 (Soil)

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

Chloride	320		16.0	mg/kg	4	3050434	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050334	JH/	05-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		3050334	JH/	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
DRO >C10-C28*	1230		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
EXT DRO >C28-C36	2970		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	

Surrogate: 1-Chlorooctane			111 %	48.2-134		3050330	MS	04-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			137 %	49.1-148		3050330	MS	04-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 07 0.25'
H232184-07 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	3050434	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050334	JH/	05-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		3050334	JH/	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
DRO >C10-C28*	226		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
EXT DRO >C28-C36	109		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	

Surrogate: 1-Chlorooctane			109 %	48.2-134		3050330	MS	04-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			130 %	49.1-148		3050330	MS	04-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 08 0.25'
H232184-08 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3050434	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050334	JH/	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050334	JH/	05-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		3050334	JH/	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3050330	MS	08-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3050330	MS	08-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3050330	MS	08-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.2 %	48.2-134		3050330	MS	08-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.2 %	49.1-148		3050330	MS	08-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 09 0.25'
H232184-09 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	3050434	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050335	JH	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050335	JH	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050335	JH	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050335	JH	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050335	JH	05-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3050335	JH	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
DRO >C10-C28*	881		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
EXT DRO >C28-C36	399		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			125 %	48.2-134		3050330	MS	04-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			142 %	49.1-148		3050330	MS	04-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

SS 10 0.25'
H232184-10 (Soil)

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

Chloride	128		16.0	mg/kg	4	3050434	AC	04-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3050335	JH	05-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3050335	JH	05-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3050335	JH	05-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3050335	JH	05-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3050335	JH	05-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %		71.5-134	3050335	JH	05-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
DRO >C10-C28*	474		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	
EXT DRO >C28-C36	202		10.0	mg/kg	1	3050330	MS	04-May-23	8015B	

Surrogate: 1-Chlorooctane			86.2 %		48.2-134	3050330	MS	04-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		49.1-148	3050330	MS	04-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050433 - 1:4 DI Water										
Blank (3050433-BLK1)				Prepared & Analyzed: 04-May-23						
Chloride	ND	16.0	mg/kg							
LCS (3050433-BS1)				Prepared & Analyzed: 04-May-23						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3050433-BSD1)				Prepared & Analyzed: 04-May-23						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 3050434 - 1:4 DI Water										
Blank (3050434-BLK1)				Prepared & Analyzed: 04-May-23						
Chloride	ND	16.0	mg/kg							
LCS (3050434-BS1)				Prepared & Analyzed: 04-May-23						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3050434-BSD1)				Prepared & Analyzed: 04-May-23						
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

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 3050334 - Volatiles**Blank (3050334-BLK1)**

Prepared: 03-May-23 Analyzed: 05-May-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	71.5-134			

LCS (3050334-BS1)

Prepared: 03-May-23 Analyzed: 05-May-23

Benzene	2.05	0.050	mg/kg	2.00		103	81.4-118			
Toluene	2.16	0.050	mg/kg	2.00		108	88.7-121			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	86.1-120			
m,p-Xylene	4.38	0.100	mg/kg	4.00		110	88.2-124			
o-Xylene	2.11	0.050	mg/kg	2.00		105	84.9-118			
Total Xylenes	6.49	0.150	mg/kg	6.00		108	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			

LCS Dup (3050334-BSD1)

Prepared: 03-May-23 Analyzed: 05-May-23

Benzene	1.99	0.050	mg/kg	2.00		99.6	81.4-118	2.88	15.8	
Toluene	2.08	0.050	mg/kg	2.00		104	88.7-121	3.86	15.9	
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	86.1-120	2.27	16	
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	88.2-124	1.64	16.2	
o-Xylene	2.06	0.050	mg/kg	2.00		103	84.9-118	2.30	16.7	
Total Xylenes	6.37	0.150	mg/kg	6.00		106	87.3-122	1.85	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	71.5-134			

Batch 3050335 - Volatiles**Blank (3050335-BLK1)**

Prepared: 03-May-23 Analyzed: 05-May-23

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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

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 3050335 - Volatiles**Blank (3050335-BLK1)**

Prepared: 03-May-23 Analyzed: 05-May-23

Total BTEX	ND	0.300	mg/kg							
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Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			
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LCS (3050335-BS1)

Prepared: 03-May-23 Analyzed: 05-May-23

Benzene	1.88	0.050	mg/kg	2.00		93.8	81.4-118			
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Toluene	1.92	0.050	mg/kg	2.00		96.0	88.7-121			
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Ethylbenzene	2.06	0.050	mg/kg	2.00		103	86.1-120			
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m,p-Xylene	4.00	0.100	mg/kg	4.00		100	88.2-124			
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o-Xylene	2.00	0.050	mg/kg	2.00		100	84.9-118			
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Total Xylenes	6.00	0.150	mg/kg	6.00		100	87.3-122			
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Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	71.5-134			
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LCS Dup (3050335-BS1)

Prepared: 03-May-23 Analyzed: 05-May-23

Benzene	1.86	0.050	mg/kg	2.00		92.8	81.4-118	1.13	15.8	
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Toluene	1.95	0.050	mg/kg	2.00		97.4	88.7-121	1.52	15.9	
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Ethylbenzene	2.08	0.050	mg/kg	2.00		104	86.1-120	1.39	16	
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m,p-Xylene	4.05	0.100	mg/kg	4.00		101	88.2-124	1.27	16.2	
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o-Xylene	2.01	0.050	mg/kg	2.00		100	84.9-118	0.448	16.7	
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Total Xylenes	6.06	0.150	mg/kg	6.00		101	87.3-122	0.999	16.3	
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Surrogate: 4-Bromofluorobenzene (PID)	0.0546		mg/kg	0.0500		109	71.5-134			
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-May-23 14:34

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050330 - General Prep - Organics**Blank (3050330-BLK1)**

Prepared: 03-May-23 Analyzed: 04-May-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	51.7		mg/kg	49.6		104	48.2-134		
Surrogate: 1-Chlorooctadecane	58.4		mg/kg	50.0		117	49.1-148		

LCS (3050330-BS1)

Prepared: 03-May-23 Analyzed: 04-May-23

GRO C6-C10	192	10.0	mg/kg	200		96.1	78.5-124		
DRO >C10-C28	192	10.0	mg/kg	200		96.0	72.5-126		
Total TPH C6-C28	384	10.0	mg/kg	400		96.0	77.6-123		
Surrogate: 1-Chlorooctane	48.0		mg/kg	49.6		96.9	48.2-134		
Surrogate: 1-Chlorooctadecane	50.2		mg/kg	50.0		100	49.1-148		

LCS Dup (3050330-BSD1)

Prepared: 03-May-23 Analyzed: 04-May-23

GRO C6-C10	234	10.0	mg/kg	200		117	78.5-124	19.5	17.7	QR-04
DRO >C10-C28	231	10.0	mg/kg	200		115	72.5-126	18.4	21	
Total TPH C6-C28	465	10.0	mg/kg	400		116	77.6-123	19.0	18.5	QR-04
Surrogate: 1-Chlorooctane	63.4		mg/kg	49.6		128	48.2-134			
Surrogate: 1-Chlorooctadecane	65.0		mg/kg	50.0		130	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Hadlie Green				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CHLORIDES</div> </div>											
Address: 601 N. Marienfeld St. STE 400				Company: BTA OIL															
City: Midland State: TX Zip: 79701				Attn: Kevin Jones															
Phone #: 4325578895 Fax #:				Address: 104 S Pecos St															
Project #: 03C3012027 Project Owner: BTA OIL				City: Midland															
Project Name: Mesa B #25				State: TX Zip: 79701															
Project Location: 32.06395-103.604785				Phone #: 4323122203															
Sampler Name: Dmitry Nikolov				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING										
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME				
#232184	SS01	0.25'	G	1			X					X		5/2/23	10:20				
1	SS02														10:30				
2	SS03														10:40				
3	SS04														10:50				
4	SS05														11:00				
5	SS06														11:10				
6																			

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Relinquished By:	Date: 5/3/23	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 12:15		All Results are emailed. Please provide Email address: hgreen@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C: 1.42	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 0.82	Checked By: (Initials)	Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C
			Thermometer ID #113 Correction Factor -0.5°C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Hadie Green				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CHLORIDES</div> </div>											
Address: 601 N. Marienfeld St. STE 400				Company: BTA Oil															
City: Midland State: TX Zip: 79701				Attn: Kevin Jones															
Phone #: 4325578895 Fax #:				Address: 104 S Pecos St															
Project #: 03C3012027 Project Owner: BTA Oil				City: Midland															
Project Name: Mesa B #25				State: TX Zip: 79701															
Project Location: 32.06395, -103.604785				Phone #: 4323122203															
Sampler Name: Dmitry Nikolov				Fax #:															
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(GRAB OR COMPOUND)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME				
#232184	SS07	0.25'	8	1			X					X		5/2/23	11:20	X	X	X	
7	SS08	↓	↓	↓			↓					↓		↓	11:30	↓	↓	↓	
8	SS09	↓	↓	↓			↓					↓		↓	11:40	↓	↓	↓	
9	SS10	↓	↓	↓			↓					↓		↓	11:50	↓	↓	↓	
10																			

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Relinquished By: <i>DK</i>	Date: 5/3/23 Time: 12:15	Received By: <i>S. R. Rigney</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <i>hgreen@ensolum.com</i> <i>-Bjennings@ensolum.com - dn:kanorov@ensolum.com</i>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 1.4 Corrected Temp. °C: 0.8	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:
		CHECKED BY: (Initials) <i>SK</i>	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
			Thermometer ID #113 Correction Factor -0.5°C

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



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

July 25, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B #25

Enclosed are the results of analyses for samples received by the laboratory on 07/19/23 14:15.

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". 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: 07/19/2023
Reported: 07/25/2023
Project Name: MESA B #25
Project Number: 03C2012027
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 07/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 01 @ 1' (H233749-01)

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	07/23/2023	ND	2.01	100	2.00	0.953	
Toluene*	<0.050	0.050	07/23/2023	ND	1.94	96.8	2.00	0.442	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.01	100	2.00	0.924	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.09	102	6.00	0.851	
Total BTEX	<0.300	0.300	07/23/2023	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	544	16.0	07/24/2023	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	07/21/2023	ND	195	97.4	200	5.27	
DRO >C10-C28*	91.8	10.0	07/21/2023	ND	206	103	200	7.88	
EXT DRO >C28-C36	61.6	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/19/2023
Reported: 07/25/2023
Project Name: MESA B #25
Project Number: 03C2012027
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 07/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 02 @ 1' (H233749-02)

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	07/23/2023	ND	2.01	100	2.00	0.953	
Toluene*	<0.050	0.050	07/23/2023	ND	1.94	96.8	2.00	0.442	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.01	100	2.00	0.924	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.09	102	6.00	0.851	
Total BTEX	<0.300	0.300	07/23/2023	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	1410	16.0	07/24/2023	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	07/21/2023	ND	195	97.4	200	5.27	
DRO >C10-C28*	34.5	10.0	07/21/2023	ND	206	103	200	7.88	
EXT DRO >C28-C36	13.9	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/19/2023
Reported: 07/25/2023
Project Name: MESA B #25
Project Number: 03C2012027
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 07/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 03 @ 1' (H233749-03)

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	07/23/2023	ND	2.01	100	2.00	0.953		
Toluene*	<0.050	0.050	07/23/2023	ND	1.94	96.8	2.00	0.442		
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.01	100	2.00	0.924		
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.09	102	6.00	0.851		
Total BTEx	<0.300	0.300	07/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/24/2023	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	07/21/2023	ND	195	97.4	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	206	103	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 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: 07/19/2023
Reported: 07/25/2023
Project Name: MESA B #25
Project Number: 03C2012027
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 07/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 04 @ 1' (H233749-04)

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	07/23/2023	ND	2.01	100	2.00	0.953		
Toluene*	<0.050	0.050	07/23/2023	ND	1.94	96.8	2.00	0.442		
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.01	100	2.00	0.924		
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.09	102	6.00	0.851		
Total BTEx	<0.300	0.300	07/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	07/24/2023	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	07/21/2023	ND	195	97.4	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	206	103	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 07/19/2023
Reported: 07/25/2023
Project Name: MESA B #25
Project Number: 03C2012027
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 07/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 05 @ 1' (H233749-05)

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	07/23/2023	ND	2.01	100	2.00	0.953	
Toluene*	<0.050	0.050	07/23/2023	ND	1.94	96.8	2.00	0.442	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.01	100	2.00	0.924	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.09	102	6.00	0.851	
Total BTEx	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	07/24/2023	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	07/21/2023	ND	195	97.4	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	206	103	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 07/19/2023
Reported: 07/25/2023
Project Name: MESA B #25
Project Number: 03C2012027
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 07/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 06 @ 1' (H233749-06)

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	07/23/2023	ND	2.01	100	2.00	0.953		
Toluene*	<0.050	0.050	07/23/2023	ND	1.94	96.8	2.00	0.442		
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.01	100	2.00	0.924		
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.09	102	6.00	0.851		
Total BTEx	<0.300	0.300	07/23/2023	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	1460	16.0	07/24/2023	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	07/21/2023	ND	195	97.4	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	206	103	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 07/19/2023
Reported: 07/25/2023
Project Name: MESA B #25
Project Number: 03C2012027
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 07/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 07 @ 1' (H233749-07)

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	07/23/2023	ND	2.01	100	2.00	0.953		
Toluene*	<0.050	0.050	07/23/2023	ND	1.94	96.8	2.00	0.442		
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.01	100	2.00	0.924		
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.09	102	6.00	0.851		
Total BTEx	<0.300	0.300	07/23/2023	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	656	16.0	07/24/2023	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	07/21/2023	ND	195	97.4	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	206	103	200	7.88	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 07/19/2023
Reported: 07/25/2023
Project Name: MESA B #25
Project Number: 03C2012027
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 07/17/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 08 @ 1' (H233749-08)

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	07/23/2023	ND	2.01	100	2.00	0.953		
Toluene*	<0.050	0.050	07/23/2023	ND	1.94	96.8	2.00	0.442		
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.01	100	2.00	0.924		
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.09	102	6.00	0.851		
Total BTEx	<0.300	0.300	07/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/24/2023	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	07/21/2023	ND	195	97.4	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	206	103	200	7.88	
EXT DRO >C28-C36	11.1	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: 432 557 8895 Fax #:

Project #: 03C2012027 Project Owner: BTA

Project Name: MESA B #25

Project Location:

Sampler Name: Connor Whitman

BILL TO

P.O. #:

Company: BTA Oil

Attn: Kaitan Beard

Address: 104 S Pecos St.

City: Midland

State: TX Zip: 79701

Phone #:

Fax #:

ANALYSIS REQUEST

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

TPH

BTEX

Chloride

H233749

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FS01

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

July 28, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B #25

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 12:13.

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

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". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:Reported:
28-Jul-23 11:28

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS 09A 4'	H233783-01	Soil	17-Jul-23 10:50	20-Jul-23 12:13
SS 10A 4'	H233783-02	Soil	17-Jul-23 10:55	20-Jul-23 12:13
SS 11 .25	H233783-03	Soil	17-Jul-23 11:00	20-Jul-23 12:13
SS 11A 4'	H233783-04	Soil	17-Jul-23 12:30	20-Jul-23 12:13
SS 12 .25	H233783-05	Soil	17-Jul-23 12:35	20-Jul-23 12:13
SS 12A 4'	H233783-06	Soil	17-Jul-23 12:55	20-Jul-23 12:13
SS 07A 4'	H233783-07	Soil	17-Jul-23 11:10	20-Jul-23 12:13

07/28/23 - Client changed the sample depths on several samples (see COC). This is the revised report and will replace the one sent on 07/26/23.

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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: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

SS 09A 4'
H233783-01 (Soil)

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

Chloride	144		16.0	mg/kg	4	3072511	AC	25-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3072405	MS	25-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	71.5-134			3072405	MS	25-Jul-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3072305	MS	24-Jul-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3072305	MS	24-Jul-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3072305	MS	24-Jul-23	8015B	

Surrogate: 1-Chlorooctane	94.1 %	48.2-134			3072305	MS	24-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane	99.5 %	49.1-148			3072305	MS	24-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

SS 10A 4'
H233783-02 (Soil)

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

Chloride	176		16.0	mg/kg	4	3072511	AC	25-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072405	MS	25-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3072405	MS	25-Jul-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072305	MS	24-Jul-23	8015B	
DRO >C10-C28*	16.4		10.0	mg/kg	1	3072305	MS	24-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072305	MS	24-Jul-23	8015B	

Surrogate: 1-Chlorooctane			90.6 %	48.2-134		3072305	MS	24-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			96.4 %	49.1-148		3072305	MS	24-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

SS 11 .25
H233783-03 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3072511	AC	25-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072405	MS	25-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3072405	MS	25-Jul-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane			84.6 %	48.2-134		3072305	MS	25-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			88.0 %	49.1-148		3072305	MS	25-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

SS 11A 4'
H233783-04 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3072511	AC	25-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072405	MS	25-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3072405	MS	25-Jul-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
DRO >C10-C28*	31.6		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	12.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane			81.8 %	48.2-134		3072305	MS	25-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.0 %	49.1-148		3072305	MS	25-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

SS 12 .25
H233783-05 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3072511	AC	25-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072405	MS	25-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3072405	MS	25-Jul-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
DRO >C10-C28*	19.1		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane			87.5 %	48.2-134		3072305	MS	25-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			92.5 %	49.1-148		3072305	MS	25-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

SS 12A 4'
H233783-06 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3072511	AC	25-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072405	MS	25-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %		71.5-134		3072405	MS	25-Jul-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
DRO >C10-C28*	27.2		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane		85.2 %		48.2-134		3072305	MS	25-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		90.9 %		49.1-148		3072305	MS	25-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

SS 07A 4'
H233783-07 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3072511	AC	25-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072405	MS	25-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072405	MS	25-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134 3072405 MS 25-Jul-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072305	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane 88.8 % 48.2-134 3072305 MS 25-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148 3072305 MS 25-Jul-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3072511 - 1:4 DI Water									
Blank (3072511-BLK1)				Prepared & Analyzed: 25-Jul-23					
Chloride	ND	16.0	mg/kg						
LCS (3072511-BS1)				Prepared & Analyzed: 25-Jul-23					
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (3072511-BSD1)				Prepared & Analyzed: 25-Jul-23					
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3072405 - Volatiles**Blank (3072405-BLK1)**

Prepared: 24-Jul-23 Analyzed: 25-Jul-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	71.5-134			

LCS (3072405-BS1)

Prepared: 24-Jul-23 Analyzed: 25-Jul-23

Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130			
Toluene	2.03	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	85.9-128			
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.33	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			

LCS Dup (3072405-BSD1)

Prepared: 24-Jul-23 Analyzed: 25-Jul-23

Benzene	2.06	0.050	mg/kg	2.00		103	82.8-130	1.88	15.8	
Toluene	1.97	0.050	mg/kg	2.00		98.4	86-128	3.20	15.9	
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	85.9-128	1.96	16	
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	89-129	2.70	16.2	
o-Xylene	2.01	0.050	mg/kg	2.00		101	86.1-125	2.48	16.7	
Total Xylenes	6.17	0.150	mg/kg	6.00		103	88.2-128	2.63	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: MESA B #25
Project Number: 03C2012027
Project Manager: HADLIE GREEN
Fax To:

Reported:
28-Jul-23 11:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3072305 - General Prep - Organics**Blank (3072305-BLK1)**

Prepared: 23-Jul-23 Analyzed: 24-Jul-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	48.2-134			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	49.1-148			

LCS (3072305-BS1)

Prepared: 23-Jul-23 Analyzed: 24-Jul-23

GRO C6-C10	193	10.0	mg/kg	200		96.5	66.4-123			
DRO >C10-C28	196	10.0	mg/kg	200		98.2	66.5-118			
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	77.6-123			
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	64.0		mg/kg	50.0		128	49.1-148			

LCS Dup (3072305-BSD1)

Prepared: 23-Jul-23 Analyzed: 24-Jul-23

GRO C6-C10	188	10.0	mg/kg	200		94.2	66.4-123	2.42	17.7	
DRO >C10-C28	203	10.0	mg/kg	200		101	66.5-118	3.16	21	
Total TPH C6-C28	391	10.0	mg/kg	400		97.8	77.6-123	0.435	18.5	
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	48.2-134			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Heddie Green</u>				P.O. #:															
Address: <u>3122 National Parks Highway</u>				Company: <u>BTA Oil</u>															
City: <u>Covington</u> State: <u>NM</u> Zip: <u>88220</u>				Attn: <u>Kelton Benard</u>															
Phone #: <u>432 557 8895</u> Fax #:				Address: <u>104 S. Pecos St.</u>															
Project #: <u>03C2012027</u> Project Owner:				City: <u>Midland</u>															
Project Name: <u>Mesa B #25</u>				State: <u>Tx</u> Zip: <u>79701</u>															
Project Location:				Phone #:															
Sampler Name: <u>Conner Whitman</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		TPH		BTX		Chloride	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
<u>H233783</u>		<u>*</u>																	
	<u>1 SS09A</u>	<u>2.5 4'</u>	<u>G</u>	<u>1</u>										<u>7/17/23</u>	<u>1050</u>				
	<u>2 SS10A</u>	<u>2.5 4'</u>		<u>1</u>											<u>1055</u>				
	<u>3 SS11</u>	<u>.25</u>		<u>1</u>											<u>1100</u>				
	<u>4 SS11A</u>	<u>4</u>		<u>1</u>											<u>1230</u>				
	<u>5 SS12</u>	<u>.25</u>		<u>1</u>											<u>1235</u>				
	<u>6 SS12A</u>	<u>4</u>		<u>1</u>											<u>1255</u>				
	<u>7 SS07A</u>	<u>2.5 4'</u>		<u>1</u>											<u>1110</u>				

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Relinquished By: <u>G. H. Green</u>	Date: <u>7/20/23</u>	Received By: <u>S. P. Dringuey</u>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: <u>7/21/23</u>	Received By:	All Results are emailed. Please provide Email address: <u>Hgreen@Ensolum.com</u>
Delivered By: (Circle One)	Observed Temp. °C: <u>3.92</u>	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	REMARKS: <u>* Customer requested Depth changes to 7/27/23</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C:	Checked By: (Initials) <u>SC</u>	Turnaround Time: <u>#140</u> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		Thermometer ID: <u>#113</u>	Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact
		Correction Factor: <u>0.5°C</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C
			<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

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



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

January 19, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #25

Enclosed are the results of analyses for samples received by the laboratory on 01/16/24 14:51.

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: 01/16/2024
 Reported: 01/19/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 01/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 1' (H240186-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.24	112	2.00	0.503	
Toluene*	<0.050	0.050	01/17/2024	ND	2.30	115	2.00	4.81	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.40	120	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	7.15	119	6.00	6.86	
Total BTEX	<0.300	0.300	01/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/17/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	190	95.1	200	0.795	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	188	94.1	200	0.755	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/16/2024
 Reported: 01/19/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 01/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 19 2' (H240186-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.24	112	2.00	0.503	
Toluene*	<0.050	0.050	01/17/2024	ND	2.30	115	2.00	4.81	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.40	120	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	7.15	119	6.00	6.86	
Total BTEX	<0.300	0.300	01/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	01/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	190	95.1	200	0.795	
DRO >C10-C28*	284	10.0	01/17/2024	ND	188	94.1	200	0.755	
EXT DRO >C28-C36	418	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/16/2024
 Reported: 01/19/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 01/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 20 2' (H240186-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.24	112	2.00	0.503	
Toluene*	<0.050	0.050	01/17/2024	ND	2.30	115	2.00	4.81	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.40	120	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	7.15	119	6.00	6.86	
Total BTEX	<0.300	0.300	01/17/2024	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	544	16.0	01/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	190	95.1	200	0.795	
DRO >C10-C28*	158	10.0	01/17/2024	ND	188	94.1	200	0.755	
EXT DRO >C28-C36	168	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/16/2024
 Reported: 01/19/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 01/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 21 2' (H240186-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.24	112	2.00	0.503	
Toluene*	<0.050	0.050	01/17/2024	ND	2.30	115	2.00	4.81	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.40	120	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	7.15	119	6.00	6.86	
Total BTEX	<0.300	0.300	01/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	01/17/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	190	95.1	200	0.795	
DRO >C10-C28*	242	10.0	01/17/2024	ND	188	94.1	200	0.755	
EXT DRO >C28-C36	339	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/16/2024
 Reported: 01/19/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 01/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 0-2' (H240186-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2024	ND	2.24	112	2.00	0.503		
Toluene*	<0.050	0.050	01/17/2024	ND	2.30	115	2.00	4.81		
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.40	120	2.00	6.18		
Total Xylenes*	<0.150	0.150	01/17/2024	ND	7.15	119	6.00	6.86		
Total BTEX	<0.300	0.300	01/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/17/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	190	95.1	200	0.795	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	188	94.1	200	0.755	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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

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

Caley 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: Ensolium, LLC				BILL TO				ANALYSIS REQUEST																																																																																																																																																		
Project Manager: Hadlie Green				P.O. #:																																																																																																																																																						
Address: 601 N. Marienfeld St. STE 400				Company: BTA Oil																																																																																																																																																						
City: Midland State: TX Zip: 79701				Attn: Kelton Begird																																																																																																																																																						
Phone #: (435) 557-8895 Fax #:				Address: 1045 Pecos St.																																																																																																																																																						
Project #: 0302012027 Project Owner:				City: Midland																																																																																																																																																						
Project Name: MESA B#25				State: TX Zip: 79701																																																																																																																																																						
Project Location: Lea County				Phone #:																																																																																																																																																						
Sampler Name: SK				Fax #:																																																																																																																																																						
<table border="1"> <thead> <tr> <th colspan="2">FOR LAB USE ONLY</th> <th rowspan="2">Depth (feet)</th> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="5">MATRIX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> <th rowspan="2">BTEX</th> <th rowspan="2">TPH</th> <th rowspan="2">Chloride</th> </tr> <tr> <th>Lab I.D.</th> <th>Sample I.D.</th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER :</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER :</th> </tr> </thead> <tbody> <tr> <td>H240186</td> <td>1 FS 12</td> <td>1</td> <td>C</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>1/10/24</td> <td>934</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td>2 FS 19</td> <td>2</td> <td>C</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>1/16/24</td> <td>1026</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>3 FS 20</td> <td>2</td> <td>C</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>1027</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>4 FS 21</td> <td>2</td> <td>C</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>1051</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>5 SW 4</td> <td>0-2</td> <td>C</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>1208</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td colspan="12" style="text-align: center;">K A N F E S K</td> <td colspan="6"></td> </tr> </tbody> </table>												FOR LAB USE ONLY		Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTEX	TPH	Chloride	Lab I.D.	Sample I.D.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	H240186	1 FS 12	1	C			X					X			1/10/24	934	X	X	X		2 FS 19	2	C			X					X			1/16/24	1026					3 FS 20	2	C			X					X				1027					4 FS 21	2	C			X					X				1051					5 SW 4	0-2	C			X					X				1208	X	X	X	K A N F E S K																	
FOR LAB USE ONLY		Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING					DATE	TIME	BTEX	TPH	Chloride																																																																																																																																					
Lab I.D.	Sample I.D.				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :																																																																																																																																													
H240186	1 FS 12	1	C			X					X			1/10/24	934	X	X	X																																																																																																																																								
	2 FS 19	2	C			X					X			1/16/24	1026																																																																																																																																											
	3 FS 20	2	C			X					X				1027																																																																																																																																											
	4 FS 21	2	C			X					X				1051																																																																																																																																											
	5 SW 4	0-2	C			X					X				1208	X	X	X																																																																																																																																								
K A N F E S K																																																																																																																																																										
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																																																																																																																																										
Relinquished By: <i>g h a r d i e</i>				Date: 1-16-24		Received By: <i>Samara</i>				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:																																																																																																																																																
				Time: 1451						All Results are emailed. Please provide Email address:																																																																																																																																																
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				Time:																																																																																																																																																						
Delivered By: (Circle One)				Observed Temp. °C 24		Sample Condition Cool Intact		CHECKED BY: (Initials) <i>JS</i>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Cool Intact		Sample Condition Observed Temp. °C																																																																																																																																												
Sampler - UPS - Bus - Other:				Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> No <input type="checkbox"/>				Thermometer ID #113 <i>1/16/24</i>		Cool Intact <input checked="" type="checkbox"/> No <input type="checkbox"/>		Corrected Temp. °C																																																																																																																																												

† Cardinal cannot accept verbal changes. Please email changes to coloy.keene@cardinallabnm.com



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

February 06, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B #25

Enclosed are the results of analyses for samples received by the laboratory on 02/01/24 13:24.

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:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: FS 09 1' (H240491-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70		
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78		
Total BTEX	<0.300	0.300	02/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	02/02/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 10 1' (H240491-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70	
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78	
Total BTEx	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	320	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 11 1' (H240491-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70		
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78		
Total BTEx	<0.300	0.300	02/02/2024	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	1280	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 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:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: FS 13 1' (H240491-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70	
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78	
Total BTEx	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	1520	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 2' (H240491-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70		
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78		
Total BTEx	<0.300	0.300	02/02/2024	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	496	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 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: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 2' (H240491-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70	
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78	
Total BTEX	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 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: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 2' (H240491-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70	
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78	
Total BTEX	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	208	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: FS 17 2' (H240491-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70	
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78	
Total BTEX	<0.300	0.300	02/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 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: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 2' (H240491-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70		
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78		
Total BTEX	<0.300	0.300	02/02/2024	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	240	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 22 2' (H240491-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70		
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78		
Total BTEX	<0.300	0.300	02/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	96.0	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: FS 23 2' (H240491-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70		
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78		
Total BTEX	<0.300	0.300	02/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 69.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 24 2' (H240491-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70		
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78		
Total BTEx	<0.300	0.300	02/02/2024	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	240	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 2' (H240491-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70	
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78	
Total BTEX	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 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: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 2' (H240491-14)

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	02/02/2024	ND	2.20	110	2.00	8.70	
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78	
Total BTX	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	656	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 2' (H240491-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.20	110	2.00	8.70		
Toluene*	<0.050	0.050	02/02/2024	ND	2.18	109	2.00	8.50		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.17	109	2.00	8.48		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.36	106	6.00	8.78		
Total BTEx	<0.300	0.300	02/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 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: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 2' (H240491-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1	
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4	
Total BTEX	<0.300	0.300	02/02/2024	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	128	16.0	02/05/2024	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	02/02/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 2' (H240491-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1		
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4		
Total BTEX	<0.300	0.300	02/02/2024	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	192	16.0	02/05/2024	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	02/03/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/03/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/03/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: SW 02 0-0.5' (H240491-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1	
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4	
Total BTEX	<0.300	0.300	02/02/2024	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	480	16.0	02/05/2024	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	02/03/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/03/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/03/2024	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 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:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: SW 04 0-1' (H240491-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1	
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4	
Total BTEX	<0.300	0.300	02/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/05/2024	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	02/03/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	43.7	10.0	02/03/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/03/2024	ND					

Surrogate: 1-Chlorooctane 72.2 % 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:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: SW 06 0-1' (H240491-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1	
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4	
Total BTEX	<0.300	0.300	02/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	02/05/2024	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	02/03/2024	ND	169	84.5	200	9.89	
DRO >C10-C28*	<10.0	10.0	02/03/2024	ND	170	84.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	02/03/2024	ND					

Surrogate: 1-Chlorooctane 71.1 % 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: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 13 0.5' (H240491-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1	
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4	
Total BTEx	<0.300	0.300	02/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2024	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	02/02/2024	ND	192	96.2	200	1.11	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	176	88.1	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 15 0.5' (H240491-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1	
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4	
Total BTEx	<0.300	0.300	02/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/05/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	219	110	200	3.59	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	230	115	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 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:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: SS 17 0.5' (H240491-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1		
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4		
Total BTEX	<0.300	0.300	02/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	448	16.0	02/05/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	219	110	200	3.59	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	230	115	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 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: 02/01/2024
Reported: 02/06/2024
Project Name: MESA B #25
Project Number: 03C2012027 (32.06395-103.604785)
Project Location: BTA - LEA COUNTY, NM

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 18 0.5' (H240491-24)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1		
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4		
Total BTEX	<0.300	0.300	02/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/05/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	219	110	200	3.59	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	230	115	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/01/2024	Sampling Date:	01/30/2024
Reported:	02/06/2024	Sampling Type:	Soil
Project Name:	MESA B #25	Sampling Condition:	Cool & Intact
Project Number:	03C2012027 (32.06395-103.604785)	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: SS 19 0.5' (H240491-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.1		
Toluene*	<0.050	0.050	02/02/2024	ND	2.21	111	2.00	11.1		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.21	110	2.00	11.5		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.65	111	6.00	10.4		
Total BTEx	<0.300	0.300	02/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/05/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	219	110	200	3.59	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	230	115	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager








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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FOR LAB USE ONLY				BILL TO										ANALYSIS REQUEST													
Company Name: Ensolum, LLC				P.O. #:																							
Project Manager: Hadlie Green				Company: BTA Oil																							
Address: 3122 National Parks Hwy				Attn: Kelton Beard																							
City: Carlsbad State: NM Zip: 88220				Address: 104 S Pecos St																							
Phone #: 432 557-8895 Fax #:				City: Midland																							
Project #: 03C2012027 Project Owner: BTA				State: TX Zip: 79701																							
Project Name: Mesa B #25				Phone #:																							
Project Location: 32.06395, -103.604785				Fax #:																							
Sampler Name: Mario Sarkis																											
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.	SAMPLING		BTEX	TPH	Chlorides	GRO + DRO	Benzene											
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL														OTHER :	DATE	TIME
1	FS09	1	C 1			X					X		1/30/24	09:51	X	X	X	X	X								
2	FS10	1	C 1			X					X		1/30/24	09:56	X	X	X	X	X								
3	FS11	1	C 1			X					X		1/30/24	10:04	X	X	X	X	X								
4	FS13	1	C 1			X					X		1/30/24	10:09	X	X	X	X	X								
5	FS14	2	C 1			X					X		1/30/24	10:26	X	X	X	X	X								
6	FS15	2	C 1			X					X		1/30/24	10:30	X	X	X	X	X								
7	FS16	2	C 1			X					X		1/30/24	10:38	X	X	X	X	X								
8	FS17	2	C 1			X					X		1/30/24	10:43	X	X	X	X	X								
9	FS18	2	C 1			X					X		1/30/24	10:48	X	X	X	X	X								
10	FS22	2	C 1			X					X		1/30/24	10:51	X	X	X	X	X								

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Relinquished By: 		Date: 2/1/24	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____
		Time: 0710		All Results are emailed. Please provide Email address: HGreen@ensolum.com
Relinquished By: 		Date: 2-1-24	Received By: 	REMARKS: Incident # NAPP2112744758
		Time: 1324		
Delivered By: (Circle One)	Observed Temp. °C 3.6	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	CHECKED BY: (Initials) 	Turnaround Time: #140
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/>
				Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
				Thermometer ID #113 Correction Factor 0.5°C
				Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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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 Oil																																					
City: Carlsbad		State: NM		Zip: 88220		Attn: Kelton Beard																																			
Phone #: 432 557-8895		Fax #:		Address: 104 S Pecos St																																					
Project #: 03C2012027		Project Owner: BTA		City: Midland																																					
Project Name: Mesa B #25				State: TX																Zip: 79701																					
Project Location: 32.06395, -103.604785				Phone #:																																					
Sampler Name: Mario Sarkis				Fax #:																																					
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER														WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE	
11		FS23		2		C		1						X										X				1/30/24		11:09		X		X		X		X		X	
12		FS24		2		C		1						X										X				1/30/24		11:12		X		X		X		X		X	
13		FS25		2		C		1						X										X				1/30/24		11:17		X		X		X		X		X	
14		FS26		2		C		1						X										X				1/30/24		11:22		X		X		X		X		X	
15		FS27		2		C		1						X										X				1/30/24		11:27		X		X		X		X		X	
16		FS28		2		C		1						X										X				1/30/24		11:32		X		X		X		X		X	
17		FS29		2		C		1						X										X				1/30/24		11:36		X		X		X		X		X	
18		SW02		0-0.5		C		1						X										X				1/30/24		11:54		X		X		X		X		X	
19		SW04		0-1		C		1						X										X				1/30/24		11:59		X		X		X		X		X	
20		SW06		0-1		C		1						X										X				1/30/24		12:05		X		X		X		X		X	

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Relinquished By: 		Date: 2/1/24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 0711				All Results are emailed. Please provide Email address:	
						HGreen@ensolum.com	
Relinquished By: 		Date: 2-1-24		Received By: 		REMARKS:	
		Time: 1324				Incident # NAPP 2112744758	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		Turnaround Time:	
Sampler - UPS - Bus - Other:		3.0°C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		#140	
		Corrected Temp. °C		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				CHECKED BY: (Initials) 		Thermometer ID #113	
						Correction Factor -0.5°C	
						Bacteria (only) Sample Condition	
						Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
						Observed Temp. °C	
						Yes <input type="checkbox"/> No <input type="checkbox"/>	
						Corrected Temp. °C	
						Yes <input type="checkbox"/> No <input type="checkbox"/>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

February 21, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #25

Enclosed are the results of analyses for samples received by the laboratory on 02/16/24 13:21.

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

Received: 02/16/2024
 Reported: 02/21/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 02/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 14 0.5' (H240760-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2024	ND	1.99	99.5	2.00	10.6	
Toluene*	<0.050	0.050	02/17/2024	ND	1.97	98.5	2.00	10.6	
Ethylbenzene*	<0.050	0.050	02/17/2024	ND	1.96	97.9	2.00	10.3	
Total Xylenes*	<0.150	0.150	02/17/2024	ND	5.70	95.0	6.00	10.4	
Total BTEx	<0.300	0.300	02/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	196	97.8	200	1.29	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	203	102	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/16/2024
 Reported: 02/21/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 02/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 16 0.5' (H240760-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2024	ND	1.99	99.5	2.00	10.6	
Toluene*	<0.050	0.050	02/17/2024	ND	1.97	98.5	2.00	10.6	
Ethylbenzene*	<0.050	0.050	02/17/2024	ND	1.96	97.9	2.00	10.3	
Total Xylenes*	<0.150	0.150	02/17/2024	ND	5.70	95.0	6.00	10.4	
Total BTEX	<0.300	0.300	02/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	196	97.8	200	1.29	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	203	102	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/16/2024
 Reported: 02/21/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 02/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 0-2' (H240760-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2024	ND	1.99	99.5	2.00	10.6	
Toluene*	<0.050	0.050	02/17/2024	ND	1.97	98.5	2.00	10.6	
Ethylbenzene*	<0.050	0.050	02/17/2024	ND	1.96	97.9	2.00	10.3	
Total Xylenes*	<0.150	0.150	02/17/2024	ND	5.70	95.0	6.00	10.4	
Total BTEX	<0.300	0.300	02/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	196	97.8	200	1.29	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	203	102	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/16/2024
 Reported: 02/21/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 02/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 5 0-2' (H240760-04)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2024	ND	1.99	99.5	2.00	10.6	
Toluene*	<0.050	0.050	02/17/2024	ND	1.97	98.5	2.00	10.6	
Ethylbenzene*	<0.050	0.050	02/17/2024	ND	1.96	97.9	2.00	10.3	
Total Xylenes*	<0.150	0.150	02/17/2024	ND	5.70	95.0	6.00	10.4	
Total BTEX	<0.300	0.300	02/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	196	97.8	200	1.29	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	203	102	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/16/2024
 Reported: 02/21/2024
 Project Name: MESA B #25
 Project Number: 03C2012027
 Project Location: BTA 32.06395,-103.604785

Sampling Date: 02/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 7 0-1' (H240760-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2024	ND	1.99	99.5	2.00	10.6	
Toluene*	<0.050	0.050	02/17/2024	ND	1.97	98.5	2.00	10.6	
Ethylbenzene*	<0.050	0.050	02/17/2024	ND	1.96	97.9	2.00	10.3	
Total Xylenes*	<0.150	0.150	02/17/2024	ND	5.70	95.0	6.00	10.4	
Total BTEX	<0.300	0.300	02/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2024	ND	196	97.8	200	1.29	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	203	102	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Hadie Green				P.O. #:															
Address: 601 N Marienfeld St # 400				Company: BTA Oil															
City: Midland State: TX Zip: 79701				Attn: Kelton Beaird															
Phone #: 432-557-8895 Fax #:				Address: 104 S Pecos St															
Project #: 03C2012027 Project Owner:				City: Midland															
Project Name: Mesa B #25				State: TX Zip: 79701															
Project Location: 32.06395, -103.604785				Phone #:															
Sampler Name: Mariaha O'Dell				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Depth (feet)	(G/RAB OR C/COMP)	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chlorides BTEX TPH					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER				DATE	TIME	
H240760	SS14	0.5'	G	1			X				X			2/16/24	9:40	X	X	X	
2	SS16	0.5'	G	1			X				X				10:30				
3	SW3	0-2'	C	1			X				X				10:20				
4	SW5	0-2'	C	1			X				X				10:10				
5	SW7	0-1'	C	1			X				X				9:50				
MO																			
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																			
Relinquished By:		Date: 2/16/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:													
Relinquished By:		Time: 13:21		Received By:		All Results are emailed. Please provide Email address: hgreen@ensolum.com													
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		REMARKS: Incident #: nAPP 2112744758											
Sampler - UPS - Bus - Other:		Corrected Temp. °C 4.0		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		8K		Turnaround Time: 5 days Standard Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition											
								Thermometer ID #113 Correction Factor 0.5°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact Observed Temp. °C											
								Correction Factor 0.5°C <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrected Temp. °C											

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



APPENDIX E

NMOCD Notifications

From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/3/2023
Date: Thursday, June 29, 2023 3:47:47 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, June 29, 2023 8:18 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/3/2023

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

BTA anticipates collecting confirmation samples at the following locations the week of July 3, 2023.

- Vacuum SWD H 35 Pipeline / nAPP2313058428
 - Sampling Date: 7/5/2023 @ 9:00 AM MST

- Chiso 14 State Jet Pump Excavation / nAPP2205837214
 - Sampling Date: 7/6/2023 @ 9:00 AM MST
- Mesa B #25 / nAPP2112744758
 - Sampling Date: 7/6-7/2023 @ 9:00 AM MST
- Mesa #16H Flowline / nAPP2123156473
 - Sampling Date: 7/7/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Buchanan, Michael, EMNRD](#)
To: [Hadlie Green](#); [Enviro, OCD, EMNRD](#); [Velez, Nelson, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Cc: [Tacoma Morrissey](#); [Kelton Beaird](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/10/2023
Date: Wednesday, July 5, 2023 3:17:40 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.jpg](#)

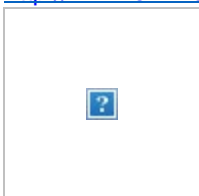
[**EXTERNAL EMAIL**]

Good afternoon,

Thank you for the notification. Please include a copy of this and all notifications in the C-141, remedial and/or closure reports to ensure the notifications are documented in the project file.

Regards,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, July 5, 2023 1:46 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/10/2023

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

BTA anticipates collecting confirmation samples at the following locations the week of July 10, 2023.

- Carrasco 14-1 / nAPP2313656375
 - Sampling Date: 7/12/2023 @ 9:00 AM MST

Mesa B #25 / nAPP2112744758

- Sampling Date: 7/6-7/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Wells, Shelly, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Kelton Beaird](#); [Tacoma Morrissey](#); [Aimee Cole](#); [Velez, Nelson, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - 11/7/2023 - Mesa B #25
Date: Friday, November 3, 2023 12:45:32 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

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/>

From: Hadlie Green <hgreen@ensolum.com>
Sent: Friday, November 3, 2023 11:24 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Aimee Cole <acole@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - 11/7/2023 - Mesa B #25

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

BTA anticipates collecting confirmation samples at the following location on Tuesday, November 7, 2023.

- Mesa B #25 / NAPP2112744758

- Sampling Date: 11/7/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 333798

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	333798
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2112744758
Incident Name	NAPP2112744758 MESA B #25 @ 30-025-46410
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-46410] MESA B 8115 FEDERAL COM #025H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MESA B #25
Date Release Discovered	03/31/2021
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 Fitting Produced Water Released: 90 BBL Recovered: 74 BBL Lost: 16 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	Cut Valve and Overflow of Tank. Valve and choke washed out on sand trap. Tank ran over and spilled water across the pad. Backhoe was already on location and used to scrape up wet soil, limiting the amount of water soaking into the pad area. Free liquid was recovered with vac truck.

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QUESTIONS, Page 2

Action 333798

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	333798
	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: kbeaird@btaoil.com Date: 04/16/2024
--	--

District I

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District III

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QUESTIONS, Page 3

Action 333798

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	333798
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 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	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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)	8260
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	44200
GRO+DRO	(EPA SW-846 Method 8015M)	30100
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	05/02/2023
On what date will (or did) the final sampling or liner inspection occur	02/16/2024
On what date will (or was) the remediation complete(d)	02/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	9240
What is the estimated volume (in cubic yards) that will be reclaimed	1300
What is the estimated surface area (in square feet) that will be remediated	5585
What is the estimated volume (in cubic yards) that will be remediated	400

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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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 333798

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	333798
	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: kbeaird@btaoil.com Date: 04/16/2024
<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>	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 333798

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 333798
	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 333798

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	333798
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	313527
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/16/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	4400

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	5585
What was the total volume (cubic yards) remediated	400
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	0
What was the total volume (in cubic yards) reclaimed	0
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: kbeaird@btaoil.com Date: 04/16/2024
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QUESTIONS, Page 7

Action 333798

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	333798
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 333798

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	333798
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation closure report approved, release resolved. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	5/14/2024