



August 3, 2023

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
Chiso 14 State 8711 #3H Wellhead
Incident Number NAB1917652490
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, delineation, excavation, and soil sampling activities performed at the Chiso 14 State 8711 #3H Wellhead (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 and crude oil at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Report*, describing Site assessment, delineation, and excavation activities that have occurred and requesting closure for Incident Number NAB1917652490.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 14, Township 22 South, Range 34 East, in Lea County, New Mexico (32.38496°, -103.43481°) and is associated with oil and gas exploration and production operations on private land owned by Merchant Livestock Company.

On May 25, 2019, leakage from a stuffing box after recent well work caused the release of approximately 16 barrels (bbls) of produced water and 5 bbls of crude oil onto the surface of the pad near the well heads. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 15 bbls of produced water and 5 bbls of crude oil 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 June 6, 2019. The release was assigned Incident Number NAB1917652490.

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 desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-01682, located approximately 527 feet south of the Site. The groundwater well has a reported depth to groundwater of 31 feet bgs and a total depth of 294 feet bgs. Ground surface elevation at the groundwater well is 3,474 feet above mean

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sea level (amsl), which is approximately 1-foot lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 315 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 (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- TPH: 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 30, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven assessment soil samples (SS01 through SS07) were collected within and around the release area, at a depth of approximately 0.25 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. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment soil sample SS01, collected within the release area, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for assessment soil samples SS02 and SS03, collected within the release area, indicated chloride concentrations exceeded the Closure Criteria at the ground surface. Laboratory analytical results for assessment samples SS04 through SS07, collected outside of the release extent, were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Vertical delineation activities and excavation activities appeared warranted to determine the depth of impacts and to address the elevated chloride concentrations.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 1 and 2, 2023, Ensolum personnel returned to the Site to complete vertical delineation activities to determine the depth of impacts during the initial Site assessment. Potholes were advanced via backhoe at the location of assessment samples SS01 through SS03, as well as in three additional

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locations (BH04 through BH06) to further identify impacted soil. The potholes were advanced to depths ranging from 2 feet to 3 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Based on field screening results, discrete delineation soil samples BH01 through BH06 were collected from the potholes at depths ranging from 0.5 feet to 3 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures previously described. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for delineation soil samples BH02 and BH03, collected at depths ranging from 1-foot to 2 feet bgs within the inferred release area, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for BH01 and BH04, collected within the inferred area at a depth of 1-foot bgs, indicated chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for BH05 and BH06, collected within the inferred area at a depth of 0.5 feet bgs, indicated chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for soil samples BH01, BH04, BH05, and BH06, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between June 14 and June 15, 2023, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for delineation soil samples BH01, BH04, BH05, and BH06. 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 FS19 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Confirmation soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for the excavation soil samples FS01 through FS19, SW01, and SW02 indicated all COC concentrations were compliant with the Site Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 4. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

The excavation area measured approximately 3,693 square feet. A total of approximately 270 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the OWL Landfill Services, LLC in Jal, New Mexico.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the May 25, 2019, release of produced water and crude oil. Laboratory analytical results for the delineation soil samples indicated that elevated chloride concentrations were present within the top 1.5 feet bgs of the pad and the release was laterally and vertically delineated to the most stringent Table I Closure Criteria. All excavation soil samples collected

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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 NAB1917652490. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included in Appendix F.

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

Sincerely,
Ensolum, LLC



Meredith Roberts
Field Geologist



Daniel R. Moir, PG
Senior Managing Geologist

cc: Kelton Beaird, BTA
Nathan Sirgo, BTA
Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Assessment Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Figure 4 Excavation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic/Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications
- Appendix F Final C-141

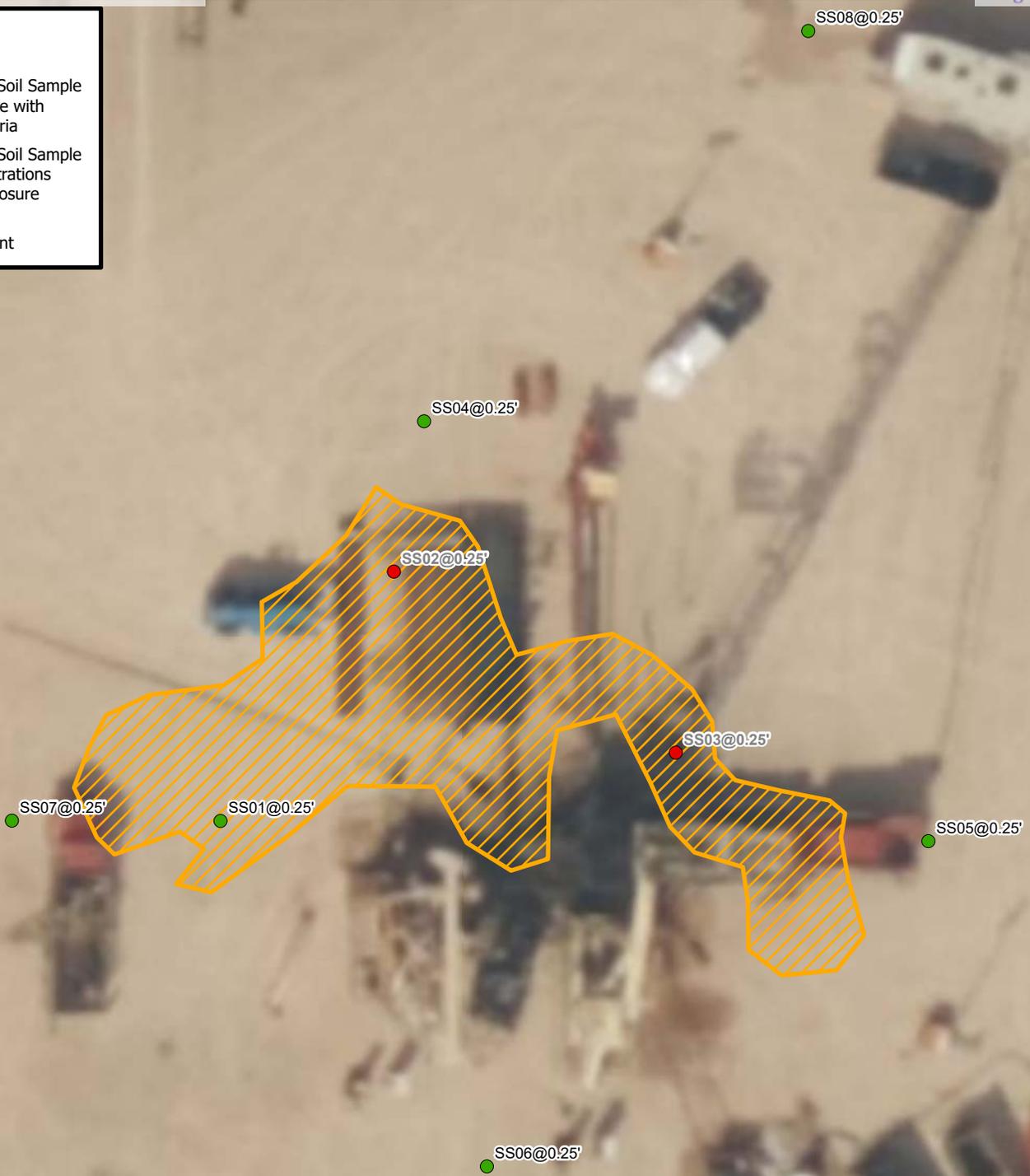


FIGURES

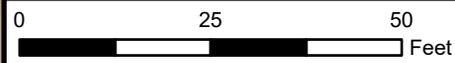
Legend

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

Folder: C:\Users\Justin Velez\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\BTA Oil Producers, LLC\03c202057 - Chiso 14 State 8711 #3H Wellhead\1 - Map File\Delimitation Soil Sample Locations Map



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria
 Samples in grey indicate samples were removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

Assessment Soil Sample Locations

BTA Oil Producers, LLC
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 Unit P Sec 14 T22S R34E
 Lea County, New Mexico

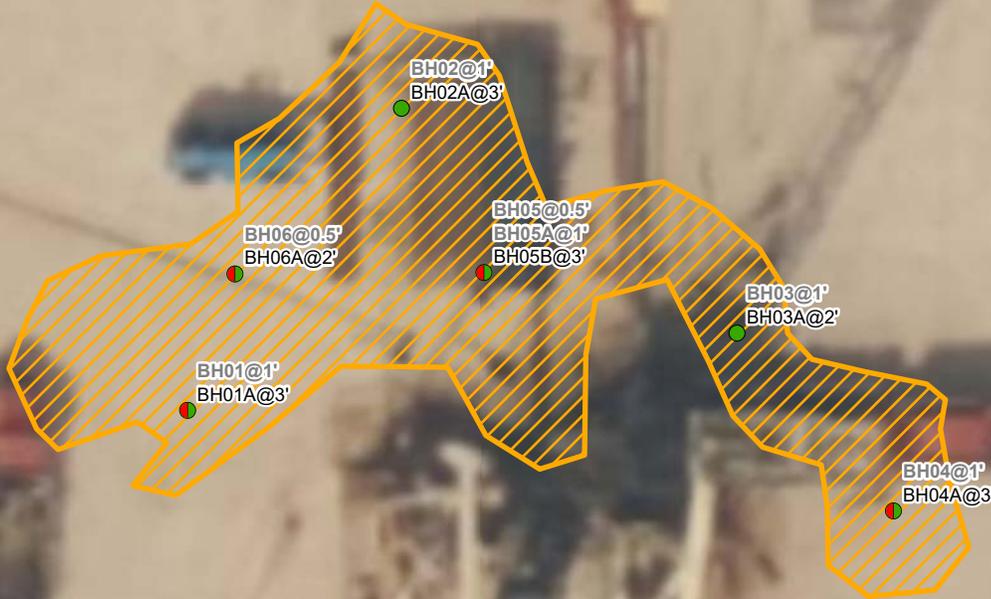
FIGURE
2



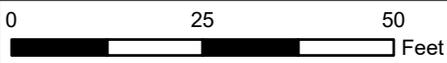
Legend

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

Folder: C:\Users\Justin Velez\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\BTA Oil Producers, LLC\03\202057 - Chiso 14 State 8711 #3H Wellhead\1 - Map File\Delineation Soil Sample Locations Map



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria
 Samples in grey indicate samples were removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

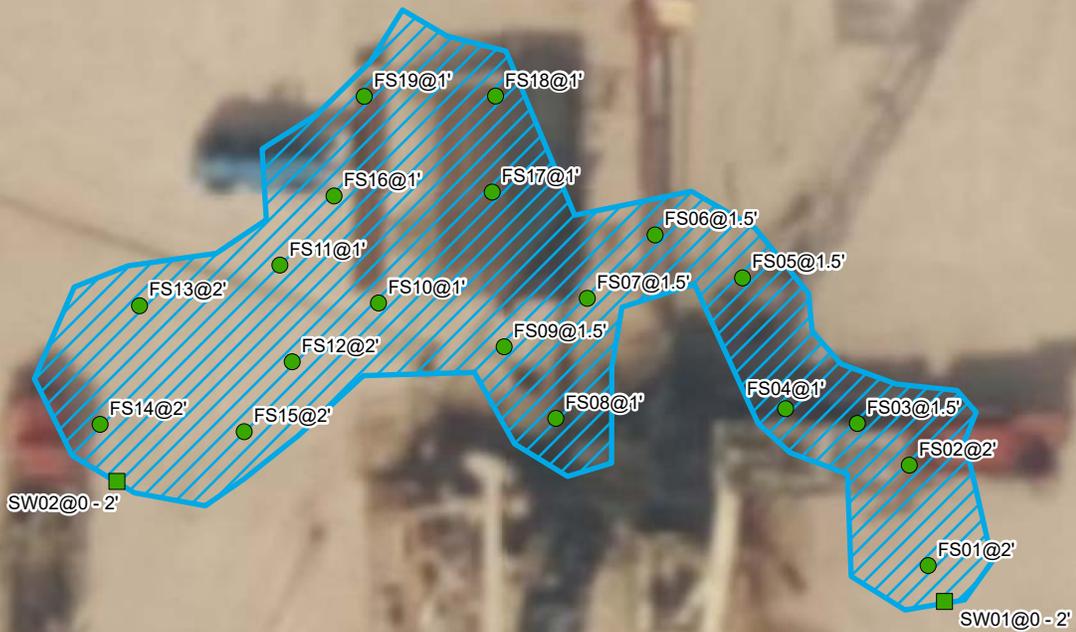
BTA Oil Producers, LLC
 Chiso 14 State 8711 #3H Wellhead
 Incident Number: NANAB1917652490
 Unit P Sec 14 T22S R34E
 Lea County, New Mexico

FIGURE
3

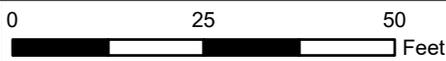


Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

BTA Oil Producers, LLC
Chiso 14 State 8711 #3H Wellhead
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Unit P Sec 14 T22S R34E
Lea County, New Mexico

FIGURE

4



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Chiso 14 State 8711 #3H Wellhead 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	NE	100	600
Assessment Soil Samples										
SS01	05/30/2023	0.25	<0.050	<0.300	<10.0	27.2	<10.0	27.2	27.2	160
SS02	05/30/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,490
SS03	05/30/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,520
SS04	05/30/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS05	05/30/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS06	05/30/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS07	05/30/2023	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Delineation Soil Samples										
BH01	06/02/2023	1	<0.050	<0.300	<10.0	41.5	<10.0	41.5	41.5	1,060
BH01A	06/02/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH02	06/01/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
BH02A	06/01/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
BH03	06/01/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
BH03A	06/01/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH04	06/01/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,460
BH04A	06/01/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH05	06/02/2023	0.5	<0.050	<0.300	<10.0	28.0	<10.0	28.0	28.0	1,410
BH05A	06/02/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
BH05B	06/02/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH06	06/02/2023	0.5	<0.050	<0.300	<10.0	18.7	<10.0	18.7	18.7	672
BH06A	06/02/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Excavation Soil Samples										
FS01	06/14/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS02	06/14/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS03	06/14/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS04	06/14/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS05	06/14/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS06	06/14/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS07	06/14/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS08	06/14/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS09	06/14/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Chiso 14 State 8711 #3H Wellhead 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	NE	100	600
FS10	06/14/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS11	06/14/2023	1	<0.050	<0.300	<10.0	13.5	<10.0	13.5	13.5	464
FS12	06/14/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS13	06/14/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS14	06/15/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS15	06/15/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS16	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS17	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS18	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS19	06/15/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW01	06/15/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW02	06/15/2023	0 - 2	<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

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Gray text indicates sample was excavated.



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2019 SEP 10 10:00 AM
 STATE ENGINEER
 RECORDS

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP-1682-POD1 South 2		WELL TAG ID NO. 2062A		OSE FILE NO(S). CP-1682		
	WELL OWNER NAME(S) Merchant Livestock Company/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) 575-398-2424		
	WELL OWNER MAILING ADDRESS PO Box 692				CITY Tatum	STATE NM	ZIP 88267
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 22	SECONDS 59.66	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103		7.87	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW1/4 NE1/4 NE1/4 Section 23, Township 22 South, Range 34 East on Merchant Livestock Company Land							

2. DRILLING & CASING INFORMATION	LICENSE NO. WD 421		NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.		
	DRILLING STARTED 09/10/19	DRILLING ENDED 09/13/19	DEPTH OF COMPLETED WELL (FT) 294	BORE HOLE DEPTH (FT) 294	DEPTH WATER FIRST ENCOUNTERED (FT) 42			
	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) 31		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" 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	22.5'	20"	Steel 12 3/4" OD	Plain End	12.25	.25	---
	0	294'	20"	Steel Casing 8 5/8" / 8.625" OD	Plain End	8.125	.25	1/8"
				Bottom 252 Perforated				

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	22.5'	20"	Cemented Redi Mix	Fill to Top	Top Pour
	0	294'	20"	3/8" Veilmore Gravel	18.52 CY	Top Pour

FOR OSE INTERNAL USE

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

FILE NO. CP-1682	POD NO. 1	TRN NO. 632044
LOCATION 212 Sec 23 T22S R 34E	WELL TAG ID NO. 2062A	PAGE 1 OF 2

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	6	6	Soil	Y ✓ N	
	6	9	3	Soil & Sand	Y ✓ N	
	9	16	7	Caliche	Y ✓ N	
	16	20	4	Clay & Sand	Y ✓ N	
	20	42	22	Red Clay	Y ✓ N	
	42	56	14	Brown Sandrock	✓ Y N	5.00
	56	63	7	Red Clay	Y ✓ N	
	63	68	5	White & Green Clay	Y ✓ N	
	68	92	24	Brown Sandrock	✓ Y N	9.00
	92	122	30	Red Clay	Y ✓ N	
	122	128	6	Brown Shale	Y ✓ N	
	128	165	37	Red Clay with Stringers of Brown Sandrock	Y ✓ N	
	165	187	22	Brown Shale	Y ✓ N	
	187	225	38	Red Clay & Red Shale	Y ✓ N	
	225	242	17	Brown Shale	Y ✓ N	
	242	274	32	Blue Sandrock & Shale	✓ Y N	1.00
	274	294	20	Red Shale	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 15.00	

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:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Travis Glenn License # 1719 (Glenn's Water Well Service, Inc.)		

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	Corky Glenn _____ DATE

FOR OSE INTERNAL USE

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

FILE NO. CP-1682	POD NO. 1	TRN NO. 632044	
LOCATION 212 Sec 23 T22S R34E	WELL TAG ID NO. 2062A		PAGE 2 OF 2



USGS Home
Contact USGS
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322231103262601

Minimum number of levels = 1

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

USGS 322231103262601 22S.34E.23.23131

Lea County, New Mexico

Latitude 32°22'47.6", Longitude 103°26'25.3" NAD83

Land-surface elevation 3,452 feet above NAVD88

The depth of the well is 60 feet below land surface.

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
1968-06-10		D	62610		3425.15
1968-06-10		D	62611		3426.75
1968-06-10		D	72019	25.25	
1971-09-08		D	62610		3423.42
1971-09-08		D	62611		3425.02
1971-09-08		D	72019	26.98	
1976-12-16		D	62610		3426.10
1976-12-16		D	62611		3427.70
1976-12-16		D	72019	24.30	
1981-03-18		D	62610		3427.03
1981-03-18		D	62611		3428.63
1981-03-18		D	72019	23.37	
1986-04-10		D	62610		3427.57

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum
1986-04-10		D	62611		3429.17
1986-04-10		D	72019	22.83	
1991-05-03		D	62610		3427.87
1991-05-03		D	62611		3429.47
1991-05-03		D	72019	22.53	
1996-02-21		D	62610		3428.27
1996-02-21		D	62611		3429.87
1996-02-21		D	72019	22.13	
2015-12-18	21:30 UTC	m	62610		3433.01
2015-12-18	21:30 UTC	m	62611		3434.61
2015-12-18	21:30 UTC	m	72019	17.39	

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

Section	Code	Description
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.

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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: 2023-08-02 14:12:21 EDT

0.37 0.33 nadww02



APPENDIX B

Photographic Log



Photographic Log

BTA Oil Producers, LLC
Chiso 14 State 8711 #3H Wellhead
Incident Number NAB1917652490



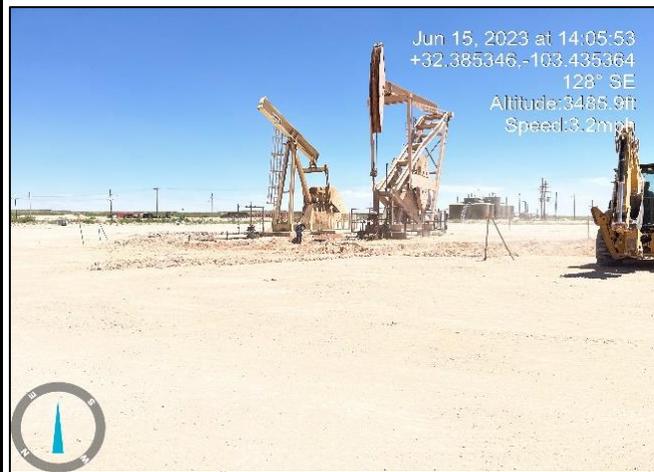
Photograph: 1 Date: 5/30/2023
Description: Release extent
View: Southwest



Photograph: 2 Date: 6/1/2023
Description: Delineation and line spotting activities
View: East



Photograph: 3 Date: 6/14/2023
Description: Excavation activities, East side
View: Southeast



Photograph: 4 Date: 6/15/2023
Description: Excavation activities, West side
View: Southeast



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 6/2/2023
								Site Name: Chiso 14 State 8711 #003H Wellhead	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR	Method: Backhoe
Coordinates: 32.385099, -103.435374								Hole Diameter: NA	Total Depth: 3'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
						0	CCHE	0-1' CALICHE with sand, medium brown/red, poorly sorted, sub-rounded grains, no stain, no odor, moist.	
D	1,271	0.0	N	BH01	1	1	SP-SM	1-3' SAND with silt, medium brown, poorly sorted, medium to fine grained, no stain/odor, dry.	
D	<173.6	0.7	N			2			
D	<173.6	0.2	N	BH01A	3	3			
						TD		Total Depth @ 3'	

								Sample Name: BH02		Date: 6/1/2023					
								Site Name: Chiso 14 State 8711 #003H Wellhead				Incident Number: nAB1917652490			
								Job Number: 03C2012057				Logged By: MR		Method: Backhoe	
								Coordinates: 32.385207, -103.435283				Hole Diameter: NA		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	364	0.1	N	BH02	1	1	SP-SM	0-2' SAND with silt, medium to fine grained, med. brown, poorly sorted, no stain, no odor, dry. moist.							
D	<173.6	0.0	N	BH02A	2	2									
						TD		Total Depth @ 2' bgs.							

								Sample Name: BH03	Date: 6/1/2023
								Site Name: Chiso 14 State 8711 #003H Wellhead	
								Incident Number: nAB1917652490	
								Job Number: 03C2012057	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR	Method: Backhoe
Coordinates: 32.385126, -103.435139								Hole Diameter: NA	Total Depth: 3'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
						0	CCHE	0-3' CALICHE, medium brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain/ no odor, dry.	
D	846	0.0	N	BH03	1	1			
D	<173.6	0.0	N	BH03A	2	2			
D	<173.6	0.0	N			3			
						TD		Total Depth @ 3'	

								Sample Name: BH04		Date: 6/1/2023					
								Site Name: Chiso 14 State 8711 #003H Wellhead				Incident Number: nAB1917652490			
								Job Number: 03C2012057				Logged By: MR		Method: Backhoe	
								Coordinates: 32.385059, -103.435075				Hole Diameter: NA		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	2,727	1.0	N	BH04	1	1	CCHE	0-3' CALICHE, medium brown, medium to coarse grained, poorly sorted, sub-rounded grains, no stain/ no odor, dry.							
D	<173.6	0.1	N			2									
D	<173.6	0.0	N	BH04A	3	3									
						TD		Total Depth @ 3'							

								Sample Name: BH05		Date: 6/2/2023					
								Site Name: Chiso 14 State 8711 #003H Wellhead				Incident Number: nAB1917652490			
								Job Number: 03C2012057				Logged By: MR		Method: Backhoe	
								Coordinates: 32.385147, -103.435247				Hole Diameter: NA		Total Depth: 3'	
LITHOLOGIC / SOIL SAMPLING LOG								Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	845.6	0.0	N	BH05	0.5	0	SP-SM	0-3' SAND with silt, medium to fine grained, poorly sorted, medium brown/red, no stain, no odor, dry.							
D	347	0.1	N	BH05A	1	1									
D	1943	0.2	N			2									
D	<173.6	0.0	N	BH05B	3	3	CCHE								
						TD	Total Depth @ 3' bgs.								

								Sample Name: BH06		Date: 6/2/2023					
								Site Name: Chiso 14 State 8711 #003H Wellhead				Incident Number: nAB1917652490			
								Job Number: 03C2012057				Logged By: MR		Method: Backhoe	
								Coordinates: 32.385148, -103.435353				Hole Diameter: NA		Total Depth: 2'	
LITHOLOGIC / SOIL SAMPLING LOG								Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	632.8	0.0	N	BH05	0.5	0	CCHE	0-2' CALICHE with sand, medium brown/red, med. grained, poorly sorted, sub-rounded grains, no stain/odor, dry.							
D	<173.6	0.1	N			1									
D	<173.6	0.2	N	BH06A	2	2		2' CALICHE, medium brown, medium grained, poorly sorted, sub-rounded grains, no stain/odor, dry.							
						TD		Total Depth @ 2' bgs.							



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 02, 2023

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

RE: CHISO 14 STATE 8711 #003H WELLHEAD

Enclosed are the results of analyses for samples received by the laboratory on 05/31/23 13:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SS 01 0.25' (H232757-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.04	102	2.00	8.36	
Toluene*	<0.050	0.050	06/01/2023	ND	2.10	105	2.00	8.54	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.03	102	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.33	105	6.00	6.80	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/01/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2023	ND	157	78.6	200	2.02	
DRO >C10-C28*	27.2	10.0	06/01/2023	ND	164	81.9	200	0.535	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 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:	05/31/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SS 02 0.25' (H232757-02)

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	06/01/2023	ND	2.04	102	2.00	8.36	
Toluene*	<0.050	0.050	06/01/2023	ND	2.10	105	2.00	8.54	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.03	102	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.33	105	6.00	6.80	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	06/01/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2023	ND	157	78.6	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/01/2023	ND	164	81.9	200	0.535	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	05/31/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SS 03 0.25' (H232757-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.04	102	2.00	8.36	
Toluene*	<0.050	0.050	06/01/2023	ND	2.10	105	2.00	8.54	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.03	102	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.33	105	6.00	6.80	
Total BTEX	<0.300	0.300	06/01/2023	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	2520	16.0	06/01/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2023	ND	157	78.6	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/01/2023	ND	164	81.9	200	0.535	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																	
Project Manager: Hadlie Green				P.O. #:																					
Address: 601 N. Marienfeld St. STE 400				Company: BTA Oil.																					
City: Midland		State: TX		Zip: 79701		Attn: Kevin Jones																			
Phone #: 432-557-8895		Fax #:		Address: 104 S Pecos St																					
Project #: 03C2012057		Project Owner:		City: Midland																					
Project Name: Chiso 14 State 8711 #003H Wellhead				State: TX, Zip 79701:																					
Project Location: 32.38496, -103.43480				Phone #: 432-312-2203																					
Sampler Name: Dmitry Nikanorov				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										
H232757																									
1	SS01	0.25	G	1			X					X		5/30/23	1000	BTEX TPH CAL ORDES									
2	SS02	0.25	G	1			X					X		5/30/23	1010										
3	SS03	0.25	G	1			X					X		5/30/23	1020										

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

Relinquished By: <i>DN</i>	Date: 5-31-23	Received By: <i>S. Rodriguez</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1300		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: 3.1	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 2.5	Checked BY: <i>SK</i> (Initials)	Thermometer ID #113	<input type="checkbox"/> Yes <input type="checkbox"/> No
			Correction Factor -0.6°C	<input type="checkbox"/> Yes <input type="checkbox"/> No

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



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

June 02, 2023

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

RE: CHISO 14 STATE 8711 #003H WELLHEAD

Enclosed are the results of analyses for samples received by the laboratory on 05/31/23 13:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SS 04 0.25' (H232760-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.04	102	2.00	8.36	
Toluene*	<0.050	0.050	06/01/2023	ND	2.10	105	2.00	8.54	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.03	102	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.33	105	6.00	6.80	
Total BTEX	<0.300	0.300	06/01/2023	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	96.0	16.0	06/01/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2023	ND	157	78.6	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/01/2023	ND	164	81.9	200	0.535	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SS 05 0.25' (H232760-02)

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	06/01/2023	ND	2.04	102	2.00	8.36	
Toluene*	<0.050	0.050	06/01/2023	ND	2.10	105	2.00	8.54	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.03	102	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.33	105	6.00	6.80	
Total BTEX	<0.300	0.300	06/01/2023	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	64.0	16.0	06/01/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2023	ND	157	78.6	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/01/2023	ND	164	81.9	200	0.535	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SS 06 0.25' (H232760-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.04	102	2.00	8.36	
Toluene*	<0.050	0.050	06/01/2023	ND	2.10	105	2.00	8.54	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.03	102	2.00	8.51	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.33	105	6.00	6.80	
Total BTEX	<0.300	0.300	06/01/2023	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	48.0	16.0	06/01/2023	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2023	ND	157	78.6	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/01/2023	ND	164	81.9	200	0.535	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SS 07 0.25' (H232760-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2023	ND	2.04	102	2.00	8.36		
Toluene*	<0.050	0.050	06/01/2023	ND	2.10	105	2.00	8.54		
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.03	102	2.00	8.51		
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.33	105	6.00	6.80		
Total BTEX	<0.300	0.300	06/01/2023	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	64.0	16.0	06/01/2023	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/01/2023	ND	157	78.6	200	2.02		
DRO >C10-C28*	<10.0	10.0	06/01/2023	ND	164	81.9	200	0.535		
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND						

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST									
Project Manager: Hadlie Green				P.O. #:													
Address: 601 N. Marienfeld St. STE 400				Company: BTA Oil.													
City: Midland		State: TX		Zip: 79701		Attn: Kevin Jones											
Phone #: 432-557-8895		Fax #:		Address: 104 S Pecos St													
Project #: 03C2012057		Project Owner:		City: Midland													
Project Name: Chiso 14 State 8711 #003H Wellhead				State: TX, Zip 79701:													
Project Location: 32.38496, -103.43480				Phone #: 432-312-2203													
Sampler Name: Dmitry Nikanorov				Fax #:													
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	Sample Depth (feet)	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTEX	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H232760																	
1	SS04	0.25	G 1		X				X			5/30/23	1140				
2	SS05	0.25	G 1		X				X			5/30/23	1150				
3	SS06	0.25	G 1		X				X			5/30/23	1200				
4	SS07	0.25	G 1		X				X			5/30/23	1100				

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Relinquished By: <i>DN</i>	Date: 5-31-23	Received By: <i>S. Rodriguez</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
	Time: 1300		All Results are emailed. Please provide Email address: hgreen@ensolum.com		
Relinquished By:	Date:	Received By:	REMARKS:		
	Time:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 3.1	Sample Condition Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>SK</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No
	Corrected Temp. °C: 2.5			Thermometer ID #113 Correction Factor -0.3°C	Corrected Temp. °C: <i>88 5/31/23</i>

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



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

June 07, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CHISO 14 STATE 8711 #003H WELLHEAD

Enclosed are the results of analyses for samples received by the laboratory on 06/02/23 12:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 01A 1' (H232803-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2023	ND	2.02	101	2.00	5.90	
Toluene*	<0.050	0.050	06/02/2023	ND	2.00	99.8	2.00	5.94	
Ethylbenzene*	<0.050	0.050	06/02/2023	ND	2.06	103	2.00	6.20	
Total Xylenes*	<0.150	0.150	06/02/2023	ND	6.15	102	6.00	6.41	
Total BTEX	<0.300	0.300	06/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	188	93.8	200	4.34	
DRO >C10-C28*	41.5	10.0	06/02/2023	ND	160	80.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 01B 3' (H232803-02)

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	06/02/2023	ND	2.02	101	2.00	5.90		
Toluene*	<0.050	0.050	06/02/2023	ND	2.00	99.8	2.00	5.94		
Ethylbenzene*	<0.050	0.050	06/02/2023	ND	2.06	103	2.00	6.20		
Total Xylenes*	<0.150	0.150	06/02/2023	ND	6.15	102	6.00	6.41		
Total BTEX	<0.300	0.300	06/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/05/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	188	93.8	200	4.34		
DRO >C10-C28*	<10.0	10.0	06/02/2023	ND	160	80.0	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND						

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/01/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 02A 1' (H232803-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2023	ND	2.02	101	2.00	5.90	
Toluene*	<0.050	0.050	06/03/2023	ND	2.00	99.8	2.00	5.94	
Ethylbenzene*	<0.050	0.050	06/03/2023	ND	2.06	103	2.00	6.20	
Total Xylenes*	<0.150	0.150	06/03/2023	ND	6.15	102	6.00	6.41	
Total BTEX	<0.300	0.300	06/03/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	188	93.8	200	4.34	
DRO >C10-C28*	<10.0	10.0	06/02/2023	ND	160	80.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/01/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 02B 2' (H232803-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2023	ND	1.90	94.8	2.00	4.10		
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24		
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66		
Total BTEX	<0.300	0.300	06/05/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/05/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	188	93.8	200	4.34		
DRO >C10-C28*	<10.0	10.0	06/02/2023	ND	160	80.0	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND						

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/01/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 03A 1' (H232803-05)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2023	ND	1.90	94.8	2.00	4.10		
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24		
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66		
Total BTEX	<0.300	0.300	06/05/2023	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	06/05/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	188	93.8	200	4.34		
DRO >C10-C28*	<10.0	10.0	06/02/2023	ND	160	80.0	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND						

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/01/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 03B 2' (H232803-06)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2023	ND	1.90	94.8	2.00	4.10		
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24		
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66		
Total BTEX	<0.300	0.300	06/05/2023	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	96.0	16.0	06/05/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/03/2023	ND	188	93.8	200	4.34		
DRO >C10-C28*	<10.0	10.0	06/03/2023	ND	160	80.0	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	06/03/2023	ND						

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/01/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 04 1' (H232803-07)

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	06/05/2023	ND	1.90	94.8	2.00	4.10	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66	
Total BTEX	<0.300	0.300	06/05/2023	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	1460	16.0	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2023	ND	188	93.8	200	4.34	
DRO >C10-C28*	<10.0	10.0	06/03/2023	ND	160	80.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/03/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/01/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 04A 3' (H232803-08)

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	06/05/2023	ND	1.90	94.8	2.00	4.10	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66	
Total BTEX	<0.300	0.300	06/05/2023	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	64.0	16.0	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2023	ND	188	93.8	200	4.34	
DRO >C10-C28*	<10.0	10.0	06/03/2023	ND	160	80.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/03/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 05 0.5' (H232803-09)

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	06/05/2023	ND	1.90	94.8	2.00	4.10	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66	
Total BTEX	<0.300	0.300	06/05/2023	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	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	167	83.6	200	2.23	
DRO >C10-C28*	28.0	10.0	06/02/2023	ND	175	87.7	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 05A 1' (H232803-10)

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	06/05/2023	ND	1.90	94.8	2.00	4.10	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66	
Total BTEX	<0.300	0.300	06/05/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	167	83.6	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/02/2023	ND	175	87.7	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 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:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 05B 3' (H232803-11)

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	06/05/2023	ND	1.90	94.8	2.00	4.10	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66	
Total BTEX	<0.300	0.300	06/05/2023	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	64.0	16.0	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	167	83.6	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/02/2023	ND	175	87.7	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 06 0.5' (H232803-12)

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	06/05/2023	ND	1.90	94.8	2.00	4.10	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66	
Total BTEX	<0.300	0.300	06/05/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2023	ND	167	83.6	200	2.23	
DRO >C10-C28*	18.7	10.0	06/03/2023	ND	175	87.7	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	06/03/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/02/2023	Sampling Date:	06/02/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #003H WELLHEA	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.38496,-103.43480		

Sample ID: BH 06A 2' (H232803-13)

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	06/05/2023	ND	1.90	94.8	2.00	4.10	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	98.9	2.00	2.24	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	1.88	93.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.83	97.2	6.00	2.66	
Total BTEX	<0.300	0.300	06/05/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/05/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2023	ND	167	83.6	200	2.23	
DRO >C10-C28*	<10.0	10.0	06/03/2023	ND	175	87.7	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	06/03/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Pg 1 of 2

Company Name: Ensolium, LLC		BILL TO		ANALYSIS REQUEST					
Project Manager: Hadlie Green		P.O. #:							
Address: 3122 Nat'l Parks Hwy		Company: BTA Oil							
City: Carlsbad State: NM Zip: 88220		Attn: Kerton Baird							
Phone #: 432-557-8895 Fax #:		Address: 104 S Pecos St							
Project #: 03C2012057 Project Owner:		City: Midland							
Project Name: Chiso 14 State 8711 #003H Wellhead		State: TX Zip: 79701							
Project Location: 323849b, -103.43480		Phone #:							
Sampler Name: Meredith Roberts		Fax #:							

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.		SAMPLING		BTEX	Chlorides	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE			
H232803 1	BH01A	1'	G			X				X		6/2/23	0910	X	X	X
2	BH01B	3'										↓	0920			
3	BH02A	1'										6/1/23	1310			
4	BH02B	2'											1315			
5	BH03A	1'											1255			
6	BH03B	2'											1300			
7	BH04A ^{top}	1'											1240			
8	BH04B ^{top}	3'											1250			
9	BH05	0.5'										6/2/23	0940			
10	BH05A	1'											0945			

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Relinquished By: <i>Meredith Roberts</i>	Date: 6-2-23 Time: 1235	Received By: <i>Sfoodrigney</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	REMARKS: Incident #: NAB1917652490
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 5.5 Corrected Temp. °C: 4.9	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
		CHECKED BY: (Initials) <i>Sf</i>	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

June 21, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CHISO 14 STATE 8711 #3H WELLHEAD

Enclosed are the results of analyses for samples received by the laboratory on 06/16/23 9:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 01 2' (H233123-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	144	16.0	06/19/2023	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	06/19/2023	ND	170	85.2	200	3.46	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	180	89.8	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 02 2' (H233123-02)

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	06/20/2023	ND	2.19	110	2.00	2.44		
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770		
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449		
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438		
Total BTEX	<0.300	0.300	06/20/2023	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	320	16.0	06/19/2023	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	06/19/2023	ND	170	85.2	200	3.46		
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	180	89.8	200	3.28		
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND						

Surrogate: 1-Chlorooctane 106 % 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:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 03 1.5' (H233123-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	192	16.0	06/19/2023	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	06/19/2023	ND	170	85.2	200	3.46	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	180	89.8	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 04 1' (H233123-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2023	ND	2.19	110	2.00	2.44		
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770		
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449		
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438		
Total BTEX	<0.300	0.300	06/20/2023	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	416	16.0	06/19/2023	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	06/19/2023	ND	170	85.2	200	3.46		
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	180	89.8	200	3.28		
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND						

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 05 1.5' (H233123-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	176	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 06 1.5' (H233123-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	304	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 07 1.5' (H233123-07)

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	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	288	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 08 1' (H233123-08)

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	06/20/2023	ND	2.19	110	2.00	2.44		
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770		
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449		
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438		
Total BTEX	<0.300	0.300	06/20/2023	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	256	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8		
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4		
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 09 1.5' (H233123-09)

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	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	208	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 10 1' (H233123-10)

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	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 11 1' (H233123-11)

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	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	464	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	13.5	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 12 2' (H233123-12)

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	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/14/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 13 2' (H233123-13)

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	06/20/2023	ND	2.19	110	2.00	2.44		
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770		
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449		
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438		
Total BTEX	<0.300	0.300	06/20/2023	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	160	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8		
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4		
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND						

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/15/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 14 2' (H233123-14)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2023	ND	2.19	110	2.00	2.44		
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770		
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449		
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438		
Total BTEX	<0.300	0.300	06/20/2023	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	128	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8		
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4		
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND						

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/15/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 15 2' (H233123-15)

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	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	176	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/15/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 16 1' (H233123-16)

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	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	288	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/15/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 17 1' (H233123-17)

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	06/20/2023	ND	2.19	110	2.00	2.44	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.770	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	0.449	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.34	106	6.00	0.438	
Total BTEX	<0.300	0.300	06/20/2023	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	288	16.0	06/19/2023	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	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/15/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 18 1' (H233123-18)

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	06/20/2023	ND	2.14	107	2.00	2.67	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	1.54	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.24	112	2.00	2.60	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.59	110	6.00	2.39	
Total BTEX	<0.300	0.300	06/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/15/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: FS 19 1' (H233123-19)

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	06/20/2023	ND	2.14	107	2.00	2.67	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	1.54	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.24	112	2.00	2.60	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.59	110	6.00	2.39	
Total BTEX	<0.300	0.300	06/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/15/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SW 01 0-2' (H233123-20)

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	06/20/2023	ND	2.14	107	2.00	2.67	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	1.54	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.24	112	2.00	2.60	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.59	110	6.00	2.39	
Total BTEX	<0.300	0.300	06/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/16/2023	Sampling Date:	06/15/2023
Reported:	06/21/2023	Sampling Type:	Soil
Project Name:	CHISO 14 STATE 8711 #3H WELLHEAD	Sampling Condition:	Cool & Intact
Project Number:	03C2012057	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.38496,-103.43480		

Sample ID: SW 02 0-2' (H233123-21)

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	06/20/2023	ND	2.14	107	2.00	2.67	
Toluene*	<0.050	0.050	06/20/2023	ND	2.17	109	2.00	1.54	
Ethylbenzene*	<0.050	0.050	06/20/2023	ND	2.24	112	2.00	2.60	
Total Xylenes*	<0.150	0.150	06/20/2023	ND	6.59	110	6.00	2.39	
Total BTEX	<0.300	0.300	06/20/2023	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	160	16.0	06/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2023	ND	235	117	200	27.8	
DRO >C10-C28*	<10.0	10.0	06/19/2023	ND	213	107	200	26.4	
EXT DRO >C28-C36	<10.0	10.0	06/19/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Pg 1 of 3

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST									
Project Manager: Hadlie Green		P.O. #:											
Address: 3122 Nat'l Parks Hwy		Company: BTA Oil											
City: Carlsbad State: NM Zip: 88220		Attn: Mr. Kelton Beard											
Phone #: 432-557-8895 Fax #:		Address: 1045. Pecos St											
Project #: 03C2012057 Project Owner:		City: Midland											
Project Name: Chiso 14 State 8711 #3H wellhead		State: TX Zip: 79701											
Project Location: 32.3896, -103.43480		Phone #:											
Sampler Name: Meredith Roberts		Fax #:											

Lab I.D.	Sample I.D.	Depth (feet)	(G/RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.		SAMPLING		BTEX	Chlorides	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE			
H233123																
1	FS01	2'	C			X				X		6/14/23	1120	X	X	X
2	FS02	2'											1125			
3	FS03	1.5'											1315			
4	FS04	1'											1135			
5	FS05	1.5'											1320			
6	FS06	1.5'											1325			
7	FS07	1.5'											1330			
8	FS08	1'											1155			
9	FS09	1.5'											1335			
10	FS10	1'											1245			

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Relinquished By: <i>Keene</i>	Date: 6-16-23	Received By: <i>Meredith Roberts</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:	
	Time: 0905		All Results are emailed. Please provide Email address: hgreen@ensolum.com mroberts@ensolum.com		
Relinquished By:	Date:	Received By:	t.morrissey@ensolum.com		
	Time:		REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 1.3	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) YO	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"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
	Corrected Temp. °C: 0.7			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

Pa 2 of 3

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST											
Project Manager: Hadlie Green		P.O. #:													
Address: 3122 Nat'l 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 #: 03C2012057 Project Owner:		City: Carlsbad Midland													
Project Name: Chiso 1A State 8711 #3H Wellhead		State: TX Zip: 79701													
Project Location: 32.38496, -103.43480		Phone #:													
Sampler Name: Mcredith Roberts		Fax #:													

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.		SAMPLING		BTEX	Chlorides	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE			
H233123	ES01 FS11	1'	1			X				X		6/14/23	1250	X	X	X
12	FS12	2'				X				X			1305			
13	FS13					X				X			1310			
14	FS14					X				X			0905			
15	FS15					X				X		6/15/23	0910			
16	FS16	1'				X				X			1030			
17	FS17					X				X			1035			
18	FS18					X				X			1040			
19	FS19					X				X			1045			
20	SW01	0-2'				X				X			1215			

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Relinquished By: <i>Keene</i>	Date: 6-16-23	Received By: <i>Theresa Adley</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:	
Relinquished By:	Date: 6/9/23	Received By:	All Results are emailed. Please provide Email address: ngreen@ensolum.com tmorrissey@ensolum.com mroberts@ensolum.com		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 1.3	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>go</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No
FORM-006 R 3.2 10/07/21	Corrected Temp. °C: 0.7	<input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #113 Correction Factor -0.5°C	Observed Temp. °C	Corrected Temp. °C

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 3 of 3

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST																										
Project Manager: Hadlie Green		P.O. #:																												
Address: 3122 Nat'l 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 #: 03C2012057 Project Owner:		City: Midland																												
Project Name: Chiso 14 State 8711 #3H wellhead		State: Tx Zip: 79701																												
Project Location: 32.38496, -103.43480		Phone #:																												
Sampler Name: Meredith Roberts		Fax #:																												
FOR LAB USE ONLY																														
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		TPH	Chlorides	BTEX												
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME															
H233123 21	SW02	0-2'	C	1			X						X			6/15/23	1320	X	X	X	MR									

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Relinquished By: <i>meads</i>	Date: 6-16-23	Received By: <i>Jessica Roberts</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 0905		All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	ngreen@ensolum.com mroberts@ensolum.com	
	Time:		tmemissey@ensolum.com	
Delivered By: (Circle One)	Observed Temp. °C: 1.3	Sample Condition	CHECKED BY: (Initials) <i>YO</i>	
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 0.7	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #113	
		<input type="checkbox"/> No <input type="checkbox"/> No	Correction Factor -0.5°C	
			Bacteria (only) Sample Condition	
			Cool Intact Observed Temp. °C	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			Corrected Temp. °C	
			<input type="checkbox"/> No <input type="checkbox"/> No	

† 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](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 05/29/2023
Date: Wednesday, May 24, 2023 4:30:12 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Hadlie,

Thank you for the notification. Please 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>



From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, May 24, 2023 2:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Nathan Sirgo <nsirgo@btaoil.com>; Kevin Jones (kjones@btaoil.com) <kjones@btaoil.com>; Kelton Beard <KBeard@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 05/29/2023

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 May 29, 2023.

- Rojo D 7811 JV P Com #003H / nOY1814130699
 - Sampling Date: 6/1/2023 @ 9:00 AM MST

- Harroun Ranch #005 / nAPP2200455573
 - Sampling Date: 6/2/2023 @ 9:00 AM MST
- Mesa Dolphin CTB / nAPP2313555368
 - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Mesa #2H Production Facility / nAPP2115531696
 - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Chiso 14 #3 & 4 Tank Flare / nOY1829542961
- Chiso 14 Sate 8711 #3H Flare Stack / nCH1903548008
- Chiso 14 State 8711 #003H Wellhead / nAB1917652490
- Chiso 14 State 8711 Flowline / nRM2034960665
 - Sampling Dates: 6/1-5/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/12/2023
Date: Friday, June 9, 2023 9:21:41 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two 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.

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 8, 2023 9:14 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beard <KBeard@btaoil.com>; Nathan Sirgo <nsirgo@btaoil.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 06/12/2023

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 June 12, 2023.

- Chiso 14 State Jet Pump Excavation / nAPP2205837214
 - Sampling Date: 6/12-13/2023 @ 9:00 AM MST
- Chiso 14 State 8711 #003H Wellhead / nAB1917652490
 - Sampling Date: 6/14-15/2023 @ 9:00 AM MST
- Chiso 14 State 8711 Flowline / nRM2034960665
 - Sampling Date: 6/14-15/2023 @ 9:00 AM MST
- Mesa 30 31 Tank Battery / nAPP2106930621
 - Sampling Date: 6/14/2023 @ 9:00 AM MST
- Rojo 10-13/34-37 / nAPP2313055442
 - Sampling Date: 6/15-16/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC





APPENDIX F

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1917652490
District RP	1RP-5569
Facility ID	
Application ID	pAB1917652096

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) NAB1917652490
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.38496° Longitude: -103.43480°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chiso 14 State 8711 #3H Wellhead	Site Type: Oil Well
Date Release Discovered: 5/25/2019	API# (if applicable) Nearest well: Chiso 14 State 8711 #3H API #30-025-43614

Unit Letter	Section	Township	Range	County
P	14	22S	34E	Lea

Surface Owner: State Federal Tribal Private (Name: Merchant Livestock, PO Box 1105, Eunice, NM 88231)

According to location given ^{AB}

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 5 BBL	Volume Recovered (bbls) 5 BBL
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 16 BBL	Volume Recovered (bbls) 15 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Caused by leakage from the stuffing box after recent well work.

(Also, see attached spill calculation spreadsheet.)

State of New Mexico
Oil Conservation Division

Incident ID	NAB1917652490
District RP	1RP-5569
Facility ID	
Application ID	pAB1917652096

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Bob Hall Title: Environmental Manager Signature: <u>Bob Hall</u> Date: 6/6/2019 email: bhall@btaoil.com Telephone: 432-682-3753
<u>OCD Only</u> Received by: <u>Amalia Bustamante</u> Date: <u>6/25/2019</u>

Incident ID	NAB1917652490
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	NAB1917652490
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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.

Printed Name: Kelton Beard Title: Environmental Manager
Signature:  Date: 8/3/2023
email: KBeard@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 8/4/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 11/03/2023
Printed Name: Nelson Velez Title: Environmental Specialist – Adv

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

CONDITIONS

Action 247903

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 247903
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	11/3/2023