

November 22, 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: Revised Remediation Work Plan RGA #1 Well Site Incident Number nAPP2228347919 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of BTA Oil Producers, LLC (BTA), has prepared the following *Revised Remediation Work Plan (Revised Work Plan)* for the RGA #1 Well Site (Site) as a follow-up to the *Remediation Work Plan and Deferral Request* submitted to the New Mexico Oil Conservation Division (NMOCD) on April 5, 2023. The NMOCD denied the *Remediation Work Plan and Deferral Request* on August 24, 2023, for the following reasons:

- Due to the shallow groundwater and presence of light end hydrocarbons, the liner is denied. This release will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule.
- Please safely remove contaminants within the deferral area with alternative methods around oil/gas equipment. Please collect confirmation samples, representing no more than 200 ft2. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule.

The following *Revised Work Plan* documents the assessment and excavation activities completed to date and proposes delineation of impacted soil associated with a historical pit encountered beneath the release area at the Site.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 14, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.30386°, -104.05949°; Figure 1) and is associated with oil and gas exploration and production operations on private land owned by Uffie Land Company.

On October 7, 2022, a stuffing box failure on the well head resulted in the release approximately 7 barrels (bbls) of crude oil and 5 bbls of produced water onto the surface of the well pad and adjacent pasture. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids;

approximately 5 bbls of crude oil and 3 bbls produced water were recovered. BTA reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on October 10, 2022. The release was assigned Incident Number nAPP2228347919.

## SITE CHARATERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the 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 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 United States Geological Survey (USGS) well 321818104032101, located approximately 0.19 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 35 feet bgs. Ground surface elevation at the groundwater well location is 2,981 feet above mean sea level (amsl), which is approximately 26 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is the Pecos River, located approximately 2,095 feet northeast 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 not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). The Site is less than 1,000 feet to a freshwater well. Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

## SITE ASSESSMENT ACTIVITIES

On October 21, 2022, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. The released fluids flowed from the well head to the southeast into surrounding pasture. Assessment soil samples SS01 through SS09 were collected within and around the release extent from a depth of approximately 0.5 feet bgs, to assess the extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The 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 at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COC): 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 Standard Method SM 4500.

Laboratory analytical results for soil samples SS01 through SS05, collected within the release extent, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for soil samples SS06 through SS09, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the surface release. Laboratory analytical results are summarized in Table 1.

Based on visible staining in the release area and laboratory analytical results for assessment soil samples SS01 through SS05, delineation and excavation activities were warranted.

## **EXCAVATION ACTIVITIES**

Between February 28, 2023, and October 17, 2023, Ensolum personnel were at the Site to oversee excavation activities based on visible staining in the release area and laboratory analytical results for the assessment soil samples SS01 through SS05. Excavation activities were performed using a backhoe, hydrovac, and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation was completed in the northern portion of the release extent near the well head; however, visible indications of a historical pit were encountered in the central portion of the release extent at an approximate depth of 2 feet to 3 feet bgs. Upon encountering the historical pit, vertical excavation was halted in this area.

Following excavation of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS11, FS01A through FS06A, and FS01B, FS04B, and FS05B were collected from the floor of the excavation at depths ranging from 1-foot to 3.5 feet bgs. Composite soil samples SW01 through SW05 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3. Photographic documentation was completed during the excavation activities. A photographic log is included in Appendix B. The soil samples were collected, handled, and analyzed as described above.

Laboratory analytical results for excavation floor samples FS01B, FS02A, FS03A, FS04B, FS05B and excavation sidewall samples SW02 through SW05, collected from the final northern excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation floor samples FS01/FS01A, FS02, FS03, FS04/FS04A, FS05/FS05A and excavation sidewall sample SW01 initially exceeded the Site Closure Criteria for TPH or chloride; additional soil was removed from these areas and subsequent excavation samples FS01B, FS02A, FS03A, FS04B, FS05B, and SW05 were compliant.

Laboratory analytical results for excavation floor samples FS06A, and FS07 through FS11, indicated that chloride concentrations exceeded the Site Closure Criteria. Due to a historical pit in the area beneath these floor samples, no further excavation was completed. Delineation activities were scheduled to determine the vertical extent of impacted soil associated with the historical pit. Laboratory analytical results for the excavation soil samples are summarized on Table 1.



The excavation measured approximately 2,200 square feet in areal extent. A total of approximately 300 cubic yards of impacted soil was excavated, transported, and properly disposed at R360 Environmental Solutions in Hobbs, New Mexico.

## **DELINEATION ACTIVITIES**

On October 24, 2023, Ensolum personnel returned to the Site to complete vertical delineation of the historical pit encountered in the floor of the open excavation. Potholes PH01 through PH03 were advanced to a depth of 13 feet bgs within the open excavation near floor samples FS06A, and FS07 through FS10. Refusal with the excavator was encountered at a depth of 13 feet bgs. Pothole PH04 was advanced to a depth of 2 feet bgs within the open excavation near floor sample FS11. Soil from the potholes was field screened at 1-foot intervals for VOCs and chloride. Delineation samples were submitted for laboratory analysis from each pothole from depths ranging from 2 feet to 13 feet bgs. Field screening results and observations from the potholes were documented on lithologic/soil sampling logs, which are included in Appendix C. The pothole locations are presented on Figure 4.

Laboratory analytical results for pothole delineation samples PH01D and PH03D, collected at a depth of 13 feet bgs, and pothole delineation sample PH04, collected at a depth of 2 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and provided vertical delineation of the impacted soil. Laboratory analytical results for pothole delineation sample PH02D, collected at a depth of 13 feet bgs, indicated that chloride concentrations continued to exceed the Site Closure Criteria within the historical pit. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D. Based on the excavation and delineation soil sample analytical results and the presence of a historical pit beneath the release extent, additional remediation activities are warranted.

## PROPOSED REMEDIATION WORK PLAN – Option 2 (delineation only)

BTA excavated approximately 300 cubic yards of impacted soil associated with the October 7, 2022, crude oil and produced water release. However, impacted soil associated with a historical buried pit was encountered in the floor of the central portion of the excavation. Analytical results from the delineation soil sampling indicated soil containing elevated chloride concentrations extends to a depth of 13 feet bgs in the areas around potholes PH01 and PH03 and to a depth greater than 13 feet bgs in the area around pothole PH02. The impacted soil below 3 feet bgs is associated with a historical pit containing pieces of liner and concrete and has a discernable visible difference between the recent release and historical impacts.

BTA proposes to complete the following remediation activities:

- Impacted soil has been successfully removed in the northern portion of the release area represented by sidewall samples SW02 through SW05 and floor samples FS01B, FS02A, FS03A, FS04B, and FS05B. BTA proposes to backfill this area. All light end hydrocarbons have been excavated, as requested in the NMOCD denial.
- Impacted soil in the vicinity of floor soil sample FS11/pothole PH02 will be excavated to a depth of 2 feet bgs. Confirmation sampling of the excavation will be completed as previously described.
- Vertical delineation of impacted soil to below the Site Closure Criteria will be completed via drilling rig at the location of pothole PH04. Lateral delineation of impacted soil to below the Site Closure Criteria will be completed via drilling rig to define the lateral extent of the historical pit.
  - Soil from the boreholes will be field screened at 1-foot intervals for VOCs and chloride using Hach<sup>®</sup>. Field screening results and observations will be logged on lithologic/soil



sampling logs. Two delineation samples from each borehole will be submitted for laboratory analysis; the sample with the highest field screening result and the sample from the final borehole depth. The delineation samples will be analyzed for BTEX, TPH, and chloride.

- Upon completion of delineation activities, the boreholes will be properly abandoned with hydrated bentonite chips.
- The proposed excavation and backfill areas, and lateral delineation points are depicted on Figure 5.

BTA will complete the delineation activities within 90 days of the date of approval of this *Revised Work Plan* by the NMOCD. Based on the delineation data, a follow-up *Remediation Work Plan* will be submitted to the NMOCD proposing additional remedial activities. NMOCD Notifications are included in Appendix E and the 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

Cadie Dreen

Hadlie Green Project Geologist

mée Cole

Aimee Cole Senior Managing Scientist

cc: Kelton Beaird, BTA Uffie Land Company

## Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Assessment Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Figure 4 Delineation Soil Sample Locations
- Figure 5 Proposed Excavation and Delineation Locations
- Table 1Soil 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 Form C-141





**FIGURES** 

Received by OCD: 11/28/2023 8:05:56 AM



Received by OCD: 11/28/2023 8:05:56 AM



### Received by OCD: 11/28/2023 8:05:56 AM



### Received by OCD: 11/28/2023 8:05:56 AM



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# TABLES

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# ENSOLUM

				TABLE I SOIL SAMPLE ANALYTICAL RESULTS RGA #1 Well Site BTA Oil Producers, LLC Eddy County, New Mexico													
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)							
NMOCD Table I C	Closure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600							
		I		Asse	essment Soil Sa	mples			I								
SS01	10/21/2022	0.5	<0.050	13.3	280	2,290	378	2,290	2,290	128							
SS02	10/21/2022	0.5	<0.050	22.4	452	7,110	1,490	7,110	7,110	1,740							
SS03	10/21/2022	0.5	<0.050	<0.300	13.7	1,200	253	1,200	1,200	320							
SS04	10/21/2022	0.5	<0.100	68.5	985	12,400	2,640	12,400	12,400	240							
SS05	10/21/2022	0.5	< 0.050	2.79	231	9,780	2,230	9,780	9,780	48.0							
SS06	10/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0							
SS07	10/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0							
SS08	10/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0							
SS09	10/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0							
				Excava	ation Floor Soil	Samples											
FS01	02/28/2023	3	<0.050	<0.300	<10.0	735	287	735	1,022	352							
FS01A	03/30/2023	3.25	<0.050	<0.300	<10.0	674	142	674	816	96.0							
FS01B	10/17/2023	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0							
FS02	02/28/2023	3	<0.050	<0.300	<10.0	564	208	564	772	688							
FS02A	03/302023	3.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288							
FS03	02/28/2023	3	<0.050	<0.300	<10.0	92.0	28.5	92.0	121	1,420							
FS03A	03/30/2023	3.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0							
FS04	02/28/2023	3	<0.050	<0.300	<10.0	126	51.1	126	177	1,180							
FS04A	03/30/2023	3.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,420							
FS04B	10/17/2023	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0							
FS05	02/28/2023	3	<0.050	<0.300	<10.0	76.6	25.8	76.6	102	3,920							
FS05A	03/30/2023	3.25	<0.050	<0.300	<10.0	205	26.0	205	231	880							
FS05B	10/17/2023	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0							
FS06	02/28/2023	3	<0.050	<0.300	<10.0	113	48.3	113	161	1,100							
FS06A	03/30/2023	3.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,040							
FS07	02/28/2023	3	<0.050	<0.300	<10.0	20.7	<10.0	20.7	20.7	5,680							
FS08	02/28/2023	3	<0.050	<0.300	<10.0	41.7	21.9	41.7	63.6	11,400							
FS09	02/28/2023	1	<0.050	<0.300	<10.0	76.2	20.8	76.2	97.0	3,730							
FS10	02/28/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,800							
FS11	02/28/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,840							

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# **ENSOLUM**

	TABLE I SOIL SAMPLE ANALYTICAL RESULTS RGA #1 Well Site BTA Oil Producers, LLC Eddy County, New Mexico													
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I CI	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600				
	Excavation Sidewall Soil Samples													
SW01	02/28/2023	0 - 3	<0.050	<0.300	<10.0	222	25.9	222	248	176				
SW02	02/28/2023	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352				
SW03	02/28/2023	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240				
SW04	02/28/2023	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192				
SW05	10/17/2023	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48				
				Deli	neation Soil Sa	mples								
PH01	10/24/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736				
PH01A	10/24/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,640				
PH01B	10/24/2023	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600				
PH01C	10/24/2023	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,460				
PH01D	10/24/2023	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560				
PH02	10/24/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,840				
PH02A	10/24/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,960				
PH02B	10/24/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,000				
PH02C	10/24/2023	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600				
PH02D	10/24/2023	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,560				
PH03	10/24/2023	3	<0.050	<0.300	<10.0	12.4	<10.0	12.4	12.4	4,240				
PH03A	10/24/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,660				
PH03B	10/24/2023	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,400				
PH03C	10/24/2023	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,800				
PH03D	10/24/2023	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256				
PH04	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256				

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 ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

Gray text represents sampls that have been excavated

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

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# APPENDIX A

**Referenced Well Records** 



USGS Home Contact USGS Search USGS

## **National Water Information System: Web Interface**

USGS Water Resources	Data Category:	Geographic Area:		
	Groundwater 🗸 🗸	United States	~	GO

## Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

site\_no list =

• 321818104032101

## **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

## USGS 321818104032101 23S.28E.14.32222

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code 13060011

Latitude 32°18'18", Longitude 104°03'21" NAD27

Land-surface elevation 2,981 feet above NAVD88

The depth of the well is 100 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



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-04-05 10:09:58 EDT 0.65 0.59 nadww01





# New Mexico Office of the State Engineer Point of Diversion Summary

		(quarte	ers are 1	=NW 2=	=NE 3=SW	′ 4=SE)					
		(quar	ters are s	smallest	t to largest)		(NAD83 U	TM in meters)			
POD	Number	Q64	Q16 Q	24 Se	e Tws	Rng	Χ	Y			
C 0	2189	1	1	3 14	4 23S	28E	587985	3574572* 🌍			
ense:	803	Driller	Comp	any:	SPI	RUILL I	BROTHERS	DRILLING			
me:	NORMAN SPRU	JILL									
Date:	03/12/1990	Drill F	inish I	Date:	0.	3/12/19	90 <b>P</b> l	ug Date:	03/13/1990		
ate:	04/20/1990	PCW I	Rev Da	te:			So	urce:	Shallow		
e:		Pipe D	ischar	ge Siz	e:		Es	<b>Estimated Yield:</b>			
e:	8.63	Depth	Well:		4	8 feet	De	epth Water:	29 feet		
Wate	er Bearing Stratif	ications:		Тор	Bottom	Desc	ription				
				37	41	Sand	stone/Grave	l/Conglomerate			
	Casing Per	forations:	orations: Top			l					
1 2 2	C 0 ense: ne: Date: ate: e: e:	ense: 803 ne: NORMAN SPRU Date: 03/12/1990 ate: 04/20/1990 e: e: 8.63 Water Bearing Stratif	C(quarPOD NumberQ64C021891ense:803Drillerne:NORMAN SPRUILLDate:03/12/1990Drill Fate:04/20/1990PCW Ie:Pipe D	POD Number   Q64 Q16 Q     C 02189   1   1     ense:   803   Driller Comp     ne:   NORMAN SPRUILL     Date:   03/12/1990   Drill Finish I     ate:   04/20/1990   PCW Rcv Da     e:   8.63   Depth Well:     Water Bearing Stratifications:   Description	POD Number   Q64 Q16 Q4 Set     C 02189   1   1   3   14     ense:   803   Driller Company:     ne:   NORMAN SPRUILL   Date:   03/12/1990   Drill Finish Date:     ate:   04/20/1990   PCW Rev Date:   Pipe Discharge Siz     e:   8.63   Depth Well:   37	POD NumberQ64 Q16 Q4 SecTwsC 0218911314238ense:803Driller Company:SPFne:NORMAN SPRUILLDate:03/12/1990Drill Finish Date:03/12/1990Date:04/20/1990PCW Rcv Date:03/12/1990PCW Rcv Date:03/12/1990e:Pipe Discharge Size:91/12/1990PCW Rcv Date:14/12/1990e:8.63Depth Well:44/12/199044/12/1990Water Bearing Stratifications:TopBottom3741/12/199037/14/12/1990	C 021891131423S28Eense:803Driller Company:SPRUILL 1ne:NORMAN SPRUILLDate:03/12/1990Drill Finish Date:03/12/19ate:04/20/1990PCW Rcv Date:e:Pipe Discharge Size:e:8.63Depth Well:48 feetWater Bearing Stratifications:TopBottomDesc3741Sand	POD NumberQ64 Q16 Q4 SecTwsRngXC 021891131423S28E587985ense:803Driller Company:SPRUILL BROTHERSne:NORMAN SPRUILLDate:03/12/1990Drill Finish Date:03/12/1990Photometricate:04/20/1990PCW Rev Date:Soe:Pipe Discharge Size:Ese:8.63Depth Well:48 feetDeWater Bearing Stratifications:TopBottomDescription3741Sandstone/Grave	POD Number   Q64 Q16 Q4 Sec   Tws   Rng   X   Y     C 02189   1   1   3   14   23S   28E   587985   3574572*     ense:   803   Driller Company:   SPRUILL BROTHERS DRILLING     ne:   NORMAN SPRUILL     Date:   03/12/1990   Drill Finish Date:   03/12/1990   Plug Date:     ate:   04/20/1990   PCW Rcv Date:   Source:   Estimated Yield:     e:   8.63   Depth Well:   48 feet   Depth Water:     Water Bearing Stratifications:   Top   Bottom   Description     37   41   Sandstone/Gravel/Conglomerate		

#### \*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/5/23 8:08 AM

POINT OF DIVERSION SUMMARY



# APPENDIX B

Photographic Log





APPENDIX C

Lithologic Soil Sampling Logs

									Sample Name: PH01	Date: 10/24/2023			
			N	S				КЛ	Site Name: RGA #1				
				3	U		U		Incident Number: nAPP222834791	19			
									Job Number: 03C2012011				
		lithol	OGI	C / SOIL S	SAMPLI	NG L	.0G		Logged By: M. O'Dell	Method: Excavator			
			-	4.059456					Hole Diameter: N/A	Total Depth: 13'			
			-						l PID for chloride and vapor, respect factors included.	ctively. Chloride test			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs		Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions			
						Щ	0						
						Ţ							
					2	+	2		OLD LINER @ 2'				
						Ŧ	-		C -				
					3	+							
D	2,374.4	0	Ν	PH01	4	+	4	CCHE	CCHE. Pad material				
D	2,374.4	0	Ν		5	‡							
D	2,072.0	0	Ν		6	<u>+</u> -	6	SW	Sand. Tannish brown, very fi	ine to fine grained,			
D	1,573.6	0	N	PH01A	7	Ŧ			well graded, dry.				
				THOIA		+							
D	2,721.6	0	Ν		8	+	8						
D	4,093.6	0	Ν	PH01B	9	Ŧ							
D	2,374.4	0	Ν		10	1	10						
D	2,620.8	0	Ν	PH01C	11	Ŧ							
D	1,719.2	0	N		12	Ŧ	12						
						+	12						
D	2,374.4	0	Ν	PH01D	13	+			Excavator Refusal at 13'.				
						Ŧ	14						
						Ţ							
						+	16						
						Ŧ							
						$\pm$							
						Ŧ	18						
						1							
						+	20						
						Ŧ	-						
						‡	<i>c</i> -						
						+	22						
						Ŧ							
						+	24						

								Sample Name: PH02 Date: 10/24/2023
	-		N			LU	КA	Site Name: RGA #1
								Incident Number: nAPP2228347919
								Job Number: 03C2012011
		LITHOL	.OGI	C / SOIL S	SAMPLING	G LOG		Logged By: M. O'Dell Method: Excavator
			-	4.059404				Hole Diameter: N/A Total Depth: 13'
			-					d PID for chloride and vapor, respectively. Chloride test n factors included.
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0		
					_			
D	3,757.6	0	N		2	2	SW	Sand. Brown, very fine to fine grained
D	3,124.8	0	N	PH02	3	+		well graded, dry. OLD LINER @ 2'
D	5,684.0	0	N		4	4		
D	6,669.6	0	N	PH02A	5		CCHE	CCHE. Pad material
D	9,996.0	0	N	11102/1	6	6	00112	
D	12,896.8	_	N	PH02B	7			
D	7,828.8	0	N	FIIOZD	8	8		
						- °		
D	8,489.6	0	N		9	-		
D	3,152.8	0	N	PH02C	10	10	SW	Sand. Tannish brown, very fine to fine grained, well graded, dry
D	5,684.0	0	N		11 _	-		
D	5,684.0	0	N		12	12		
D	4,832.8	0	N	PH02D	13	-		Excavator Refusal at 13'.
					- -	14		
					-			
					-	16		
					-	- 10		
					_			
					_	18		
					_	F		
					-	20		
					-			
					-	22		
1					-	Ł		
						24		

								Sample Name: PH03	Date: 10/24/2023
			N	2		LU		Site Name: RGA #1	
				J				Incident Number: nAPP22283479	19
								Job Number: 03C2012011	
		lithol	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: M. O'Dell	Method: Excavator
Coord	inates: 3	2.303827	′, -104	4.059288				Hole Diameter: N/A	Total Depth: 13'
								d PID for chloride and vapor, respective factors included.	ctively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
					]	0			
					-	-			
D	6,669.6	0	Ν		2	2	SW	Sand. Brown, very fine to fir	ne grained
D	3,757.6	0	Ν	PH03	3	$\mathbf{F}$		well graded, dry. OLD LINER	@ 2'
D	10,869.9	0	N	1105	4	4		Sand. Brown, very fine to fir	a grained
U						4		well graded, dry, caliche in s	sample.
D	11,827.2	0	Ν	PH03A	5	$\vdash$	CCHE	CCHE. Pad material	
D	8,489.6	0	Ν		6	6			
D	7,828.8	0	Ν		7				
D	6,669.6	0	Ν	PH03B	8	8			
D	5,241.6	0	N		9	-			
D	3,757.6	0	N		10	10			
D	2,878.4	0	Ν	PH03C	11	F			
D	3,757.6	0	N		12	12			
D	2,620.8	0	N	PH03D	13			Excavator Refusal at 13'.	
	2,020.0	0	IN	FIIO2D		-			
					-	14			
					-	_			
					-	16			
					-	-			
					-	18			
					-	Ł			
					-	20			
					-				
						-			
					-	22			
					-				
						24			

								Sample Name: PH04	Date: 10/24/2023
				C	ΟΙ			Site Name: RGA #1	
				3				Incident Number: nAPP2228	347919
								Job Number: 03C2012011	
		LITHOL	OGI		SAMPLING	i LOG		Logged By: M. O'Dell	Method: Excavator
Coord	linates: 3	2.303772	., -104	4.059161				Hole Diameter: N/A	Total Depth: 2'
			-					PID for chloride and vapor, i factors included.	respectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	c Descriptions
D	263.2	0	Ν	PH04	2	$ \begin{array}{c}         0 \\         2 \\       $		Sand. Brown, very fine <sup>-</sup> well graded, dry.	to fine grained,



## APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



November 01, 2022

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RGA #1

Enclosed are the results of analyses for samples received by the laboratory on 10/24/22 14:22.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	11/01/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

#### Sample ID: SS 01 .5' (H224994-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.95	97.7	2.00	11.3	
Toluene*	0.255	0.050	10/31/2022	ND	2.12	106	2.00	11.9	
Ethylbenzene*	1.99	0.050	10/31/2022	ND	2.10	105	2.00	12.5	GC-NC1
Total Xylenes*	11.1	0.150	10/31/2022	ND	6.28	105	6.00	12.4	GC-NC1
Total BTEX	13.3	0.300	10/31/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	348 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/27/2022	ND	400	100	400	11.3	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	280	50.0	10/28/2022	ND	191	95.5	200	1.86	
DRO >C10-C28*	2290	50.0	10/28/2022	ND	192	96.1	200	2.07	
EXT DRO >C28-C36	378	50.0	10/28/2022	ND					
Surrogate: 1-Chlorooctane	118 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	160 9	46.3-17	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	11/01/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

#### Sample ID: SS 02 .5' (H224994-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2022	ND	1.95	97.7	2.00	11.3		
Toluene*	1.33	0.050	10/31/2022	ND	2.12	106	2.00	11.9		
Ethylbenzene*	2.37	0.050	10/31/2022	ND	2.10	105	2.00	12.5	GC-NC1	
Total Xylenes*	18.7	0.150	10/31/2022	ND	6.28	105	6.00	12.4	GC-NC1	
Total BTEX	<b>22.4</b> 0.300		10/31/2022	ND					GC-NC1	
Surrogate: 4-Bromofluorobenzene (PID	315 % 69.9-140		0							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	10/27/2022	ND	400	100	400	11.3		
TPH 8015M	mg/	kg	Analyzed By: MS					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	452	50.0	10/28/2022	ND	191	95.5	200	1.86		
DRO >C10-C28*	7110	50.0	10/28/2022	ND	192	96.1	200	2.07		
EXT DRO >C28-C36	1490	50.0	10/28/2022	ND						
Surrogate: 1-Chlorooctane	135 9	6 45.3-16	1							
Surrogate: 1-Chlorooctadecane	182 9	6 46.3-17	8							

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	11/01/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

#### Sample ID: SS 03 .5' (H224994-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.95	97.7	2.00	11.3	
Toluene*	<0.050	0.050	10/31/2022	ND	2.12	106	2.00	11.9	
Ethylbenzene*	<0.050	0.050	10/31/2022 ND		2.10	105	2.00	12.5	
Total Xylenes*	0.249	0.150	10/31/2022 ND		6.28	105	6.00	12.4	GC-NC1
Total BTEX	3TEX <0.300 0.300		10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID 114 % 69.9-1-		69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Analyte Result Rep		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/27/2022	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.7	10.0	10/28/2022	ND	191	95.5	200	1.86	
DRO >C10-C28*	1200	10.0	10/28/2022	ND	192	96.1	200	2.07	
EXT DRO >C28-C36	253	10.0	10/28/2022	ND					
Surrogate: 1-Chlorooctane	97.2	45.3-16	1						
Surrogate: 1-Chlorooctadecane		46.3-17	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	11/01/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

#### Sample ID: SS 04 .5' (H224994-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	10/31/2022	ND	1.97	98.5	2.00	11.1		
Toluene*	1.96	0.100	10/31/2022	ND	2.21	111	2.00	11.2		
Ethylbenzene*	10.3	0.100	10/31/2022	ND	2.12	106	2.00	11.8	GC-NC1, QM-07	
Total Xylenes*	56.3	0.300	10/31/2022	ND	6.39	107	6.00	12.4	GC-NC1, QM-0	
Total BTEX	BTEX 68.5 0.600		10/31/2022	ND					GC-NC1	
urrogate: 4-Bromofluorobenzene (PID 338 % 69.9-14		0								
Chloride, SM4500CI-B mg/kg			Analyzed By: AC							
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/27/2022	ND	400	100	400	11.3		
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	985	50.0	10/28/2022	ND	191	95.5	200	1.86		
DRO >C10-C28*	12400	50.0	10/28/2022	ND	192	96.1	200	2.07		
EXT DRO >C28-C36	2640	50.0	10/28/2022	ND						
Surrogate: 1-Chlorooctane 191 %		% 45.3-16	1							
Surrogate: 1-Chlorooctadecane	276 9	% 46.3-17	8							

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	11/01/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

#### Sample ID: SS 05 .5' (H224994-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.5	2.00	11.1			
Toluene*	0.081	0.050	10/31/2022	ND	2.21	111	2.00	11.2			
Ethylbenzene*	0.297	0.050	10/31/2022	ND	2.12	106	2.00	11.8	GC-NC1		
Total Xylenes*	2.41	0.150	10/31/2022	ND	6.39	107	6.00	12.4	GC-NC1		
Total BTEX	<b>IBTEX 2.79</b> 0.300		10/31/2022	ND					GC-NC1		
Surrogate: 4-Bromofluorobenzene (PID 181 % 69.9-14		0									
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC								
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	48.0	16.0	10/27/2022	ND	400	100	400	11.3			
TPH 8015M	mg/kg		Analyzed By: MS						S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	231	50.0	10/28/2022	ND	191	95.5	200	1.86			
DRO >C10-C28*	9780	50.0	10/28/2022	ND	192	96.1	200	2.07			
EXT DRO >C28-C36	2230	50.0	10/28/2022	ND							
Surrogate: 1-Chlorooctane	121 9	45.3-16	1								
Surrogate: 1-Chlorooctadecane	226 9	46.3-17	0								

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Ott	Relinquished By:	PLEASE NOTE: LabBly and Damages. Cardinal analyses. All claims including these for negligence aervice. In no event shall Cardinal be hable for inc affiliates or successors while out of or related to affiliates or successors while out of or related to	ve	- UI	Ν	HZZYQQH	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: RGA #1	Project #: 03c 20/20/1	Phone #: 432-5578875	City: Midland	Address: 601 h	Project Manager: Hadlit	Company Name:		2
ter:	white	Damages. Cardinal's lability and cli those for negligence and any other lanal be liable for incidential or conse out of or related to the performance	2055 LOCC	5503	5502	5501	Sample I.D.		Connor Wh	5	GA #1	20/20/1	7-8875 798 2608		601 N. Marienfeld St. STE 400	Hadlit Gunen	Ensolum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	abora
served Temp. °C rracted Temp. °C	Time:	of services heready for any claim an exame whatsoever shall be deemed an exame whatsoever shall be deemed an examination of services hereander by Cardinal, rea	ę			N, (G)E	Sample Depth (feet) (C)OM	AD.	Litmon			Project Owner:	Fax #:	State: TX Z	400			1 East Marland, Hobbs, NM 88240 575) 393-2326 FAX (575) 393-2476	oratories
1.2 Sample Condition Cool Intact Yes Yes	Received By:	the arising whether based is contra ed unived unless made is writing a ed unived unless made is writing ad itembion, business interruption ad itembion, business interruption ad the business interruption		- /	- /	- # CC GRC WAS SOIL	DNTAINERS DUNDWATER STEWATER	MATRIX				BTA		Zip: 79701				0	
Ves (Initials)	gung	ang whether based in contract of text, shall be limited to the amount paid by the client for the werd unless make in writing and received by Cardinal within 30 days after completion of the applitization, base of tree, or loss of profits incurred by client, its subsidiaries, anders of whether such claim is based upon any of the above stated reasons or otherwise.	~ ``	/	2117 Inv	OTH	ER : D/BASE / COOL	PRESERV.	Fax #:	#:43	TX	city: Midland	Address: 104 5	-a.	Company: BTA	P.O. #:	BILL 1		
Turnaround Tin	All Results are emailed. Pic BJennings@ensolum.com REMARKS:		1030 /	1 546	1 0/6	TIME	ITEX	SAMPLING		12-2203	19701		Pecos st.		0;1		70		CHAIN-OF-C
ne: Standard . Rush	All Results are emailed. Please provide Email address: BJennings@ensolum.com REMARKS: hgrcen@cnsolum.com			11	1	T	PH hloride									_			
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	JAdd'I Phone #: de Email address: ∪ ^ . com															_	ANALYSIS REQUEST		USTODY AND ANALYSIS RE
ample Condition Observed Temp. °C				14 + 1 · · · · · ·												_			REQUEST

Page 8 of 8



October 31, 2022

HADLIE GREEN ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RGA #1

Enclosed are the results of analyses for samples received by the laboratory on 10/24/22 14:22.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	10/31/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

#### Sample ID: SS 06 .5' (H224995-01)

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	10/31/2022	ND	1.97	98.5	2.00	11.1	
Toluene*	<0.050	0.050	10/31/2022	ND	2.21	111	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.12	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.39	107	6.00	12.4	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	10/27/2022	ND	400	100	400	11.3	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	191	95.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	192	96.1	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					
Surrogate: 1-Chlorooctane	89.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.1	% 46.3-17	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	10/31/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

### Sample ID: SS 07 .5' (H224995-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.5	2.00	11.1	
Toluene*	<0.050	0.050	10/31/2022	ND	2.21	111	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.12	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.39	107	6.00	12.4	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/27/2022	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	191	95.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	192	96.1	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					
Surrogate: 1-Chlorooctane	87.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.8	% 46.3-17	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	10/31/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

### Sample ID: SS 08 .5' (H224995-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.5	2.00	11.1	
Toluene*	<0.050	0.050	10/31/2022	ND	2.21	111	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.12	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.39	107	6.00	12.4	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/27/2022	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	191	95.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	192	96.1	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					
Surrogate: 1-Chlorooctane	88.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.6	% 46.3-17	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/24/2022		Sampling Date:	10/21/2022
Reported:	10/31/2022		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

### Sample ID: SS 09 .5' (H224995-04)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.5	2.00	11.1	
Toluene*	<0.050	0.050	10/31/2022	ND	2.21	111	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.12	106	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.39	107	6.00	12.4	
Total BTEX	<0.300	0.300	10/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/27/2022	ND	400	100	400	11.3	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	191	95.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	192	96.1	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					
Surrogate: 1-Chlorooctane	85.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.8	% 46.3-17	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose share there applied by the services arise of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Sampler - UPS - Bus - Other: Relinquished By: Relinquished By: City: Delivered By: (Circle One) Sampler Name: Project Location: Project Name: RGA #1 Project #: 03620 2011 Project Manager: Had is Grean HZZHAQS Phone #: Address: Company Name: lyses. All dates induding those toe. In no event shall Card FOR LAB USE ONLY Lab I.D. Midland 432-557-8895-2608 G- With 4W N 601 N. Marienfeld St. STE 400 101 East Marland, Hobbs, NM 88240 3055 Sample I.D. (575) 393-2326 FAX (575) 393-2476 509 5506 Ensolum, LLC onn 30 Observed Temp. 5 htman Fax #: acted Tamp Sample Depth Time: Project Owner: -02422 State: そうよ Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com (feet) N X 0.6 12 (G)RAB OR (C)OMP Zip Received By Received By BTA (CD) # CONTAINERS -79701 GROUNDWATER sample Condition WASTEWATER Yes Yes No No No MATRIX SOIL OIL No SLUDGE OTHER Phone #:431-312-2203 State: X P.O. #: Fax #: city: Midland Address: 04 5 Attn: 306 Ha company: BTAO; Ned by Cardinal within 30 days after co ACID/BASE PRESERV CHECKED BY: ICE / COOL (Initials) OTHER BILL TO Zip: / 970 9/21/22 DATE SAMPLING Pecos paid by the client for the Sent, its sub Turnaround Time: REMARKS All Results are emailed. Please provide Email address Verbal Result: BJennings@ensolum.com 1035 5401 TIME 050 1040 etion of the app ¥ meter ID hgrzen@ensolum.com BTEX #113 U Yes TPH Standard Rush Chlorise O No Add'I Phone # ANALYSIS Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes Nc No Corrected Temp. REQUEST Observed Temp. °C ő

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

aboratories

ARDINA



March 06, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: RGA #1

Enclosed are the results of analyses for samples received by the laboratory on 03/01/23 13:35.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 01 3' (H230956-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2023	ND	2.10	105	2.00	0.101	
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989	
Total BTEX	<0.300	0.300	03/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	735	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	287	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 02 3' (H230956-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2023	ND	2.10	105	2.00	0.101	
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989	
Total BTEX	<0.300	0.300	03/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	564	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	208	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	109 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	150 9	49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW	ſY	
		CARLSBAD NM, 88220		
		Fax To:		
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 03 3' (H230956-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2023	ND	2.10	105	2.00	0.101	
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989	
Total BTEX	<0.300	0.300	03/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	03/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	92.0	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	28.5	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 04 3' (H230956-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	QM-07
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	QM-07
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	03/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	126	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	51.1	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 05 3' (H230956-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	03/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	76.6	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	25.8	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	103 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	6 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW	ſY	
		CARLSBAD NM, 88220		
		Fax To:		
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 06 3' (H230956-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	03/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	113	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	48.3	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 07 3' (H230956-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	03/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	20.7	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 08 3' (H230956-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	03/02/2023	ND	432	108	400	3.77	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	41.7	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	21.9	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 09 1' (H230956-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3730	16.0	03/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	76.2	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	20.8	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 10 1' (H230956-10)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	03/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: FS 11 1' (H230956-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	03/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: SW 01 0-3' (H230956-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	223	112	200	7.63	
DRO >C10-C28*	222	10.0	03/02/2023	ND	213	107	200	9.33	
EXT DRO >C28-C36	25.9	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: SW 02 0-3' (H230956-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	223	112	200	7.63	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	213	107	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	111 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	6 49.1-14							

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: SW 03 0-3' (H230956-14)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	223	112	200	7.63	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	213	107	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/01/2023		Sampling Date:	02/28/2023
Reported:	03/06/2023		Sampling Type:	Soil
Project Name:	RGA #1		Sampling Condition:	Cool & Intact
Project Number:	03C2012011		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - EDDY CO NM			

### Sample ID: SW 04 0-3' (H230956-15)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	0.912	
Toluene*	<0.050	0.050	03/02/2023	ND	2.06	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.19	110	2.00	4.67	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.73	112	6.00	5.20	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
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	03/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2023	ND	223	112	200	7.63	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	213	107	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

0172-000 [MA 0202-000 [010]		
Vame: Ensolum, LLC	BI	BILL TO
nager: Hadlie Garcen	P.O. #:	
Sida Nat'l Parks Huy	Company: BTA OIL	STA OIL
State: NM Zip: 88 220	Attn:	Bob Hall
7.8895		Address: 104 S. Recos St.
RGA#1 SProject Owner:	city: Midland	end
110610	State: TX	State: TX Zip: 79701
cation: 32.30386, 7104.05949	Phone #: 43	Phone #: 432 . 312 . 2203
ame: Meredity Roberts	Fax #: /	
	MATRIX PRESERV.	SAMPLING
Sample I.D. Depth (feet)	CONTAINERS	

Page 1 of 2

	(010) 000 2020	101 101 000 -					
Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO		ANALYSIS REQUEST	1
Project Manager:	Hadlie (	Sircen		P.O. #:			_
Address: 31 a	Sida Nat'l Parks	is Huy		Company: BTA Ci			_
02			State: N M Zip: 88 220	Attn: Bob Hall			
Phone #: 432.557.8	. 557.8895	Fax #:		Address: 104 S. Recos St.	St.		_
Project #: RG	RG₁A#1	Project Owner:	a	city: Midland			_
ame:	0362012011	K		State: TX Zip: 79701	01		
9	: 32.30386	-104.05949	P4	Phone #: 432 . 312 . 2203	2203		
Sampler Name:	Meredity	Roberts		Fax #: /			_
FOR LAB USE ONLY	1			PRESERY. SAMPLING			
Lab I.D. HZ309SLe	Sample I.D.	Depth (feet)	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	BTEX Chiorid	< трц 	
1 mil	FSOI	U,	-	X 20/80/23	1255 X X X		-
2	ESOZ	_			1300		-
S	FS03				1305		-
1-5	F504				1310		
6	=206				1320		-
5	FSOT				1325		-
8	F\$ 08	. +			1330		-
La La	FSON	+-	++	<	1415 + +	<	-
PLEASE NOTE: Liability and Dar analyses. All claims including tho service. In no event shall Cardina	PLEASE NOTE: Lability and Damages. Cardinal's lability and c analyses. All claims including those for negligence and any offic service. In no event shall Cardinal be liable his incidental or com	Cardinal's liability and client's exclusive remedy for any claim regignere and any other cause whatsoever shall be deemed ble far incidental or consequential damages, including without ble far incidental or consequential damages, including without	any claim arising whether based in contrac deemed waived unless made in writing ar g without limitation, business interruptions	days irred	paid by the client for the after completion of the applicable by client, its subsidiaries,		
Relinquished By	By:	Time: 1335	Received By:	odkignung	Verbal Result: DYes DrNo Add'I Phot All Results are emailed. Please provide Email a horecneensolum. wm	Verbal Result: DYes DNo Add'I Phone #: All Results are emailed. Please provide Email address: hgreen@ensolum.wm hmomissey@ensolum.wm	6
Relinquished By	(	Date: Time:	Received By:	(	Incident #: NA	NAPP2228347919	
Delivered By: (Circle One)	ircle One)	arved Temp	NO	tion CHECKED BY:	Turnaround Time: S R Thermometer ID #113	(0	
Sampler - UPS - Bus - Other:	Bus - Other:	Corrected Temp. *C	NO LON LON CO.	No R		No No Corrected Temp. °C	

Cool Intact Aves Aves No No No

Corrected Temp. °C

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

### aboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 op D

Company Name: Ensolum, LLC Phone #: 432.557.8895 City: Project Manager: Sampler Name: Project Location: Project Name: RGA # 1 Project #: Address: H230956 Relinquished By Relinguished By: PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive rem analyses. All claims including those for negligence and any other cause whatsoever ervice. In no event shall Car FOR LAB USE ONLY Lab I.D. Carisbad 3122 03620 12011 4 NN 5 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Meredith nal be liable for inc Sample I.D. Hadlie 30. Nat-1 FSII SWOA SW 03 SW OD SW 01 30386 dental or cons Green Parks 0 ١ Time:1335 Fax #: Project Owner: Jental 104.05949 State: NM Sell-S Date: Time: Depth (feet) bert 0 damages, including 3 the ¢ vder by shall be de Zip: (G)RAB OR (C)OMP + Received By: Received By: # CONTAINERS + waived 0.0083 GROUNDWATER unless made in writing and received by Cardinal within n, business interruptions, loss of use, or loss of profits WASTEWATER MATRIX + X SOIL such claim is based upon any of the above states OIL SLUDGE P.O. #: Attn: State: TX Zip: City: Midland OTHER Phone #: 432.312.2203 Address: 104 S. Pecos St Company: ANN Fax #: PRESERV ACID/BASE ICE / COOL + Bob Hall BILL OTHER BTA within 30 days after 51/36/23 DATE 10 ۴ SAMPLING 7970 0 ed by client, its subsidiaries All Results are emailed. Please provide Email address: hore en Ocn Solum - com non two m5504 Ocn Solum . com 1350 1345 5680 Verbal Result: completion of the applicable by the cas 1225 REMARKS: 355 TIME Incident 101 01 BTEX ¢ 4 Chlondes Yes Ħ Ļ TPH NAPP2228347919 7 ON D ANALYSIS Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. Ves Yes Nc No Corrected Temp. mobertsalunsalum REQUEST Page S

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

Observed

I amp.

ÿ ŝ

0

CHECKED BY:

**Turnaround Time:** 

Standard Rush

Corrected Temp. °C

ĉ

(Initials)

Ine

rmometer ID #113

1 5

Cool Intact Sample Condition

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

ARDINAL



April 04, 2023

HADLIE GREEN ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RGA #1

Enclosed are the results of analyses for samples received by the laboratory on 03/30/23 14:00.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

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

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

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

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



30-Mar-23 14:00

30-Mar-23 14:00

30-Mar-23 14:00

30-Mar-23 14:00

30-Mar-23 10:40

30-Mar-23 10:45

30-Mar-23 10:50

30-Mar-23 10:55

### Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: RGA # oject Number: 03C20 oject Manager: HADLI Fax To:	12011	Reported: 04-Apr-23 13:50
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 01 A 3.25' FS 02 A 3.25'	H231477-01 H231477-02	Soil Soil	30-Mar-23 10:30 30-Mar-23 10:35	30-Mar-23 14:00 30-Mar-23 14:00

Soil

Soil

Soil

Soil

\*\*\* There was insufficient time for the samples to reach the temperature of 6C or below.

H231477-03

H231477-04

H231477-05

H231477-06

### Cardinal Laboratories

FS 03 A 3.25'

FS 04 A 3.25'

FS 05 A 3.25'

FS 06 A 3.25'

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012011	N		(	Reported: 04-Apr-23 13:	50
				01 A 3.25 477-01 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	3033115	AC	31-Mar-23	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3033029	ЈН	30-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3033029	ЛН	30-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3033029	ЛН	30-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	3033029	ЛН	30-Mar-23	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
DRO >C10-C28*	674		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
EXT DRO >C28-C36	142		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctane			98.6 %	48.2	-134	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			130 %	49.1	-148	3033027	MS	31-Mar-23	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: RGA #1 Reported: Project Number: 03C2012011 04-Apr-23 13 Project Manager: HADLIE GREEN Fax To: FS 02 A 3.25' H231477-02 (Soil)									50
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	288		16.0	mg/kg	4	3033115	AC	31-Mar-23	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3033029	ЛН	30-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3033029	ЛН	30-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	3033029	ЈН	30-Mar-23	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctane			93.1 %	48.2	-134	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1	-148	3033027	MS	31-Mar-23	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project Number: 03C2012011 04-Apr-23 Project Manager: HADLIE GREEN Fax To: FS 03 A 3.25' H231477-03 (Soil)								Reported: )4-Apr-23 13::	50
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds			160	4		2022115	AC	31-Mar-23	4500-Cl-B	
Chloride	96.0		16.0	mg/kg	4	3033115	AC	31-Mar-23	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3033029	JH	30-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	3033029	JH	30-Mar-23	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctane			91.7%	48.2	-134	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1	-148	3033027	MS	31-Mar-23	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana Fax FS 0		2012011 DLIE GREEM	N		C	Reported: )4-Apr-23 13::	50
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	1420		16.0	mg/kg	4	3033115	AC	31-Mar-23	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3033029	JH	31-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3033029	JH	31-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3033029	JH	31-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3033029	ЛН	31-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3033029	ЈН	31-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	-134	3033029	ЈН	31-Mar-23	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctane			98.1 %	48.2	-134	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	3033027	MS	31-Mar-23	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:         RGA #1         Reported:           Project Number:         03C2012011         04-Apr-23 13:50           Project Manager:         HADLIE GREEN         Fax To:             FS 05 A         3.25'           H231477-05 (Soil)         (Soil)								50	
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	880		16.0	mg/kg	4	3033115	AC	31-Mar-23	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3033029	JH	31-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3033029	JH	31-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3033029	JH	31-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3033029	ЛН	31-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3033029	ЛН	31-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	-134	3033029	JH	31-Mar-23	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
DRO >C10-C28*	205		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
EXT DRO >C28-C36	26.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctane			91.2 %	48.2	-134	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	3033027	MS	31-Mar-23	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: RGA #1 Reported: Project Number: 03C2012011 04-Apr-23 13:50 Project Manager: HADLIE GREEN Fax To: FS 06 A 3.25' H231477-06 (Soil)								50	
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	3040		16.0	mg/kg	4	3033115	AC	31-Mar-23	4500-Cl-B	
			10.0	ing/kg	·	5055115	ne	51 Mai 25	1000 01 15	
Volatile Organic Compounds by		8021								
Benzene*	< 0.050		0.050	mg/kg	50	3033029	ЛН	31-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3033029	ЛН	31-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3033029	ЛН	31-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3033029	ЛН	31-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3033029	ЛН	31-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5	-134	3033029	ЛН	31-Mar-23	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctane			97.3 %	48.2	-134	3033027	MS	31-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1		3033027	MS	31-Mar-23	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: RGA #1 Project Number: 03C2012011 Project Manager: HADLIE GREEN Fax To:							Reported: 04-Apr-23 13:50			
	Inor	ganic Com Cardiı	-	- Quality	Control						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 3033115 - 1:4 DI Water Blank (3033115-BLK1)				Prepared &	Analyzed:	31-Mar-23					
Chloride LCS (3033115-BS1)	ND	16.0	mg/kg	Prepared &	Analyzed:						
Chloride LCS Dup (3033115-BSD1)	416	416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 31-Mar-23									
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20		

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: RGA #1 Project Number: 03C2012011 Project Manager: HADLIE GREEN Fax To:					Reported: 04-Apr-23 13:50				
	Volatile Organic (	•	·	A Method 8 Doratories	3021 - Qu	ality Co	ntrol			
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3033029 - Volatiles										
Blank (3033029-BLK1)				Prepared &	Analyzed:	30-Mar-23				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Fotal BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0539		mg/kg	0.0500		108	71.5-134			
LCS (3033029-BS1)				Prepared &	Analyzed:	30-Mar-23				
Benzene	2.04	0.050	mg/kg	2.00		102	81.4-118			
Toluene	2.07	0.050	mg/kg	2.00		103	88.7-121			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	86.1-120			
n,p-Xylene	4.36	0.100	mg/kg	4.00		109	88.2-124			
-Xylene	2.08	0.050	mg/kg	2.00		104	84.9-118			
Total Xylenes	6.44	0.150	mg/kg	6.00		107	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			
LCS Dup (3033029-BSD1)				Prepared &	Analyzed:	30-Mar-23				
Benzene	1.93	0.050	mg/kg	2.00		96.5	81.4-118	5.49	15.8	
Coluene	1.94	0.050	mg/kg	2.00		97.1	88.7-121	6.33	15.9	
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	86.1-120	5.64	16	
n,p-Xylene	4.14	0.100	mg/kg	4.00		103	88.2-124	5.21	16.2	
-Xylene	1.98	0.050	mg/kg	2.00		99.2	84.9-118	4.87	16.7	
fotal Xylenes	6.12	0.150	mg/kg	6.00		102	87.3-122	5.10	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	71.5-134			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: RGA #1 Project Number: 03C2012011 Project Manager: HADLIE GREEN Fax To:	Reported: 04-Apr-23 13:50					
Petroleum Hydrocarbons by GC FID - Quality Control							

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3033027 - General Prep - Organics										
Blank (3033027-BLK1)				Prepared &	Analyzed:	30-Mar-23	3			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	64.5		mg/kg	50.0		129	49.1-148			
LCS (3033027-BS1)				Prepared &	Analyzed:	30-Mar-23	3			
GRO C6-C10	210	10.0	mg/kg	200		105	78.5-124			
DRO >C10-C28	235	10.0	mg/kg	200		117	72.5-126			
Total TPH C6-C28	445	10.0	mg/kg	400		111	77.6-123			
Surrogate: 1-Chlorooctane	59.0		mg/kg	50.0		118	48.2-134			
Surrogate: 1-Chlorooctadecane	67.0		mg/kg	50.0		134	49.1-148			
LCS Dup (3033027-BSD1)				Prepared &	Analyzed:	30-Mar-23	3			
GRO C6-C10	206	10.0	mg/kg	200		103	78.5-124	2.20	17.7	
DRO >C10-C28	217	10.0	mg/kg	200		109	72.5-126	7.72	21	
Total TPH C6-C28	423	10.0	mg/kg	400		106	77.6-123	5.07	18.5	
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	68.1		mg/kg	50.0		136	49.1-148			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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 $6^{\circ}\mathrm{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager
1	2
La	2
bo	R
rat	
tor	Z
IPS	PL

101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### Relinquished By: Relinquished By inalyses. All claims Sampler Name: Peter Van Patten Project Name: RGA #1 ervice. In no event shall Cardinal be liable for Project Location: 32.3039,-104.0595 Project #: 03C2012011 Phone #: 432-557-8895 City: Midland Project Manager: Hadlie Green Company Name: Ensolum, LLC Address: 601 N Marienfeld Street, Suite 400 Delivered By: (Circle One) LEASE NOTE: Liability 423147-FOR LAB USE ONLY Lab I.D. 6 U 0 NF including those for negligence and any other cause whatsoever shall be deemed 10th F505A FSOLA F506A FS02A F>04A FS03A Sample I.D. (575) 393-2326 FAX (575) 393-2476 ental or col Observed Temp-1 Time: Date: 3-70-23 3.25 3,25 W ental dam 3.25 Date: Eddy Fax #: Time: W services hereunder by Ca Project Owner: State: TX Depth 25 (feet) 25 nages. including ô without limi C (G)RAB OR (C)OMP Zip: 79701 Received By: Received By 00 00 S waived # CONTAINERS Mann GROUNDWATER whether based in contract or tort, shall be limited to the amount paid by the client for the unless made in writing and received by Cardinal within 30 days after completion of the applicable Cool Intact Sample Condition WASTEWATER MATRIX 7 5 5 5 77 SOIL ter such claim is based upon any of the above stated OIL ins, loss of use, or loss of profits incu SLUDGE OTHER State: City: P.O. #: Attn: Fax #: Phone #: Company: BTA Address: ACID/BASE: PRESERV CHECKED BY 5 5 5 5 5 ICE / COOL Rob (Initials) OTHER BILL TO 3-70-23 Zip: 3-30-23 320-23 3-30-23 3-30-23 30.23 DATE Ha red by diient, its subsi SAMPLING 0 1050 All Results are emailed. Please provide Email address: 1095 Turnaround Time:24 Standard REMARKS 1045 1040 1035 020 hareen Censolum.com TIME FWND PH K ¢ 5 T 5 < 101ANK: 5.42 BTEX < < 5 Ś C Chloride < K. 2 C ¢ < R ANALYSIS Cool Intact Bacteria (only) Sample Condition REQUEST Observed Temp. °C

Sampler - UPS - Bus - Other:

0

0

+

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

Thermometer ID #113

Ves Ves

Corrected Temp. °C

# Page 73 of 93



# APPENDIX E

**NMOCD** Notifications

Released to Imaging: 3/18/2024 3:29:15 PM

From:	Enviro, OCD, EMNRD
To:	Hadlie Green; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject:	Re: [EXTERNAL] BTA - Sampling Notification - Week of November 14th - November 18th
Date:	Monday, November 14, 2022 5:00:37 PM
Attachments:	image001.png image002.png image003.png image004.png

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

From: Hadlie Green <hgreen@ensolum.com>
Sent: Monday, November 14, 2022 3:53 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of November 14th - November 18th

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

BTA anticipates collecting confirmation samples at the following locations this week, November 14<sup>th</sup> through the 18<sup>th</sup>.

- Mesa B #2 Poly Line Coupling Failure (nAPP2229734031)
  - GPS: 32.05169, -103.6057
- RGA #1 Stuffing Box Failure (nAPP2228347919)
  - GPS: 32.30386, -104.05949

Thank you,



Hadlie Green Staff Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC in f Y

From:	Hamlet, Robert, EMNRD
To:	Hadlie Green
Cc:	Bob Hall; Tacoma Morrissey; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	(Extension Approval) BTA - RGA #1 (Incident Number NAPP2228347919)
Date:	Thursday, December 29, 2022 2:29:03 PM
Attachments:	image006.png
	image007.png
	image008.png
	image009.png

### RE: Incident #NAPP2228347919

### Hadlie,

Your request for an extension to **April 5th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, December 28, 2022 3:00 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: FW: [EXTERNAL] BTA-Extension Request - RGA #1 (Incident Number nAPP2228347919)

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 <<u>hgreen@ensolum.com</u>>
Sent: Wednesday, December 28, 2022 2:46 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Bob Hall <<u>bhall@btaoil.com</u>>; Tacoma Morrissey <<u>tmorrissey@ensolum.com</u>>
Subject: [EXTERNAL] BTA-Extension Request - RGA #1 (Incident Number nAPP2228347919)

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

All,

BTA is requesting an extension for the current deadline of January 5, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for RGA #1 (Incident Number nAPP2228347919). The release was discovered on October 7, 2022. Initial site assessment activities have been completed and excavation activities are ongoing. In order to complete additional remediation activities and submit a remediation work plan or closure report, BTA requests a 90-day extension of this deadline until April 5, 2023.

Thank you,



Hadlie Green Staff Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC in f

From:	Enviro, OCD, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject:	RE: [EXTERNAL] BTA - Sampling Notification - February 17th-20th
Date:	Thursday, February 16, 2023 10:35:48 AM
Attachments:	image006.png
	image007.png
	image008.png
	image009.png

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.

JΗ

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: Tuesday, February 14, 2023 10:11 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - February 17th-20th

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

All,

BTA anticipates collecting confirmation samples at the following location on February 17<sup>th</sup> and 20<sup>th</sup>.

- RGA #1 / Incident Number NAPP2228347919
  - GPS: 32.30386, -104.05949

Thank you,

From:	Enviro, OCD, EMNRD
To:	Hadlie Green
Subject:	RE: [EXTERNAL] BTA - Sampling Notification - Week of 02/27/2023
Date:	Friday, February 24, 2023 2:45:46 PM
Attachments:	image006.png
	image007.png
	image008.png
	image009.png

Hadie,

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 insure inclusion in the project file.

JΗ

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: Friday, February 24, 2023 11:41 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 02/27/2023

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 February 27, 2023.

- RGA #1 / Incident Number NAPP2228347919
  - GPS: 32.30386, -104.05949
- Mesa B East Poly Line Weld Failure / Incident Number nAPP2232980823

- GPS: 32.06018, -103.60497
- Vaca Draw West TB / nAPP2300347524
  - GPS: 32.14046, -103.56478

Thank you,



Hadlie Green Staff Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC in f

From:	Enviro, OCD, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject:	RE: [EXTERNAL] BTA - Sampling Notification - Week of 03/27/2023
Date:	Monday, March 27, 2023 9:12:35 AM
Attachments:	image005.jpg image006.png image007.png image008.png image009.png

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.

JΗ

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: Friday, March 24, 2023 1:01 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 03/27/2023

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 location the week of March 27, 2023.

- RGA #1 / nAPP2228347919
  - Sampling Date: 3/30/2023 @ 10:00 AM MST

From:	Wells, Shelly, EMNRD
То:	Hadlie Green; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD; Maxwell, Ashley, EMNRD; Bratcher, Michael, EMNRD
Cc:	Kelton Beaird; Aimee Cole; Tacoma Morrissey
Subject:	RE: [EXTERNAL] BTA - Sampling Notification - Week of 10/23/2023
Date:	Thursday, October 19, 2023 9:11:07 AM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png

Good morning Hadlie,

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

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive | Santa Fe, NM 87505 (505)469-7520\_Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, October 19, 2023 9:57 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>; Aimee Cole <acole@ensolum.com>; Tacoma Morrissey
<tmorrissey@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 10/23/2023

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 October 23, 2023.

• RGA #1 / nAPP2228347919

Sampling Date: 10/24/2023 @ 9:00 AM MST

- Mesa 8105 JV-P #4H Battery / NRM2004549559
  - Sampling Date: 10/24-27/2023 @ 9:00 AM MST
- Mesa 8105-JV-P 004H / NOY1831160155
   Sampling Date: 10/25-26/2023 @ 9:00 AM MST
- Vaca West Tank Battery / nAPP2202849030
   Sampling Date: 10/25-27/2023 @ 9:00 AM MST
- Ogden 20509 1-3H Tank Battery / NAB1905943420
  - Sampling Date: 10/27/2023 @ 9:00 AM MST

Thank you,



Hadlie Green Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC



# APPENDIX F

Form 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	nAPP2228347919
District RP	
Facility ID	
Application ID	

# **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.comIncident # (assigned by OCD)nAPP2228347919		
Contact mailing address: 104 S. Pecos St., Midland, TX 79701		

# **Location of Release Source**

Latitude: 32.30386 Longitude: -104.05949

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: RGA #1	Site Type: Well Site
Date Release Discovered: 10/07/2022	API# ( <i>if applicable</i> ) Nearest well: RGA #1 API #30-015-26151

Unit Letter	Section	Township	Range	County
К	14	235	28E	Eddy

Surface Owner: State Federal Tribal Private (*Name: Uffie Land Company*)

# Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 7 BBL	Volume Recovered (bbls) 5 BBL	
Produced Water	Volume Released (bbls) 5 BBL	Volume Recovered (bbls) 3 BBL	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
Cause of Release Stuffing Box Failure.			
Spill onto pad immediately around the wellhead and on caliche well pad.			
(See attached spill calculation spreadsheet.)			

	23 8:05:56 AM State of New Mexico	Incident ID	nAPP2228347919
ge 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major	If YES, for what reason(s) does the responsible part	ty consider this a major release	?
release as defined by			
19.15.29.7(A) NMAC?			
☐ Yes ⊠ No			
If YES, was immediate r	notice given to the OCD? By whom? To whom? Wh	en and by what means (phone,	email, etc)?
	Initial Respons	e	
	-		
The responsible	e party must undertake the following actions immediately unless the	y could create a safety hazard that wou	ıld result in injury
$\square$ The source of the rel	lease has been stopped.		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	as been secured to protect human health and the envir		
	as been secured to protect human health and the environave been contained via the use of berms or dikes, absorb		ent devices.
Released materials h	•	orbent pads, or other containme	ent devices.
Released materials h     All free liquids and p	have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	orbent pads, or other containme	ent devices.
Released materials h     All free liquids and p	have been contained via the use of berms or dikes, abso	orbent pads, or other containme	ent devices.
Released materials h     All free liquids and p	have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	orbent pads, or other containme	ent devices.
Released materials h     All free liquids and p	have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	orbent pads, or other containme	ent devices.
Released materials h     All free liquids and p	have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	orbent pads, or other containme	ent devices.
Released materials h     All free liquids and p	have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	orbent pads, or other containme	ent devices.
Released materials h     All free liquids and p	have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	orbent pads, or other containme	ent devices.
Released materials h	have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage ed above have <u>not</u> been undertaken, explain why:	orbent pads, or other containme d appropriately.	
<ul> <li>Released materials h</li> <li>All free liquids and n</li> <li>If all the actions described</li> <li>Per 19.15.29.8 B. (4) NM</li> </ul>	have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage ed above have <u>not</u> been undertaken, explain why:	orbent pads, or other containme d appropriately.	of a release. If remediatio
<ul> <li>Released materials h</li> <li>All free liquids and n</li> <li>If all the actions described</li> <li>Per 19.15.29.8 B. (4) NN</li> <li>has begun, please attach</li> </ul>	have been contained via the use of berms or dikes, absorrecoverable materials have been removed and manage ed above have <u>not</u> been undertaken, explain why: MAC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts ha	orbent pads, or other containme d appropriately. on immediately after discovery of twe been successfully complete	of a release. If remediatio d or if the release occurre
Released materials h All free liquids and n If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme	have been contained via the use of berms or dikes, absorrecoverable materials have been removed and manage ed above have <u>not</u> been undertaken, explain why: MAC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts ha ent area (see 19.15.29.11(A)(5)(a) NMAC), please attac	orbent pads, or other containme d appropriately. on immediately after discovery we been successfully complete ich all information needed for c	of a release. If remediatio d or if the release occurre losure evaluation.
<ul> <li>Released materials h</li> <li>All free liquids and n</li> <li>If all the actions described</li> <li>Per 19.15.29.8 B. (4) NN</li> <li>has begun, please attach</li> <li>within a lined containment</li> <li>I hereby certify that the infinited</li> </ul>	have been contained via the use of berms or dikes, absorrecoverable materials have been removed and manage ed above have <u>not</u> been undertaken, explain why: MAC the responsible party may commence remediation is a narrative of actions to date. If remedial efforts ha ent area (see 19.15.29.11(A)(5)(a) NMAC), please attaced formation given above is true and complete to the best of my	orbent pads, or other containme d appropriately. on immediately after discovery of the been successfully complete the all information needed for c knowledge and understand that pu	of a release. If remediatio d or if the release occurre losure evaluation. ursuant to OCD rules and
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OCD Only

Received by: Jocelyn Harimon

Date: 10/10/2022

Location RGA #1 Stuffing Box Leak API # Spill Date 10/7/2022

**Spill Dimensions** 

ENTER - Length of Spill ENTER - Width of Spill ENTER - Saturation Depth of Spill

43.5 <b>feet</b>
43.5 <b>feet</b>
5 <b>inches</b>



Oil Cut - Well Test / Vessel Throughput or Contents
Oil
Water
Calculated Oil Cut

# Volume Recovered in Truck / Containment ENTER - Recovered Oil ENTER - Recovered Water

5	BBL
3	BBL

0.583333

Calculated Values
Release of Oil in Soil - Unrecovered
Release of Water in Soil - Unrecovered
Unrecovered Total Release

	2	BBL
	2	BBL
	4	BBL
		-
		2

calculated

Calculated Values			
Total Release of Oil			
Total Release of Water			
Total Release			

calculated		
7	BBL	
5	BBL	
12	BBL	

Types of Soil	Porosity Factor	
Gravel	0.25	
Sand	0.20	
Clay/silt/sand Mix	0.15	
Clay	0.05	
Caliche	0.03	
Unknown	0.25	

(Length X Width X Depth X 1 ft/12 in) X Porosity 5.615 ft<sup>3</sup> / BBL

Х

Oil Cut (or Water Cut) RGA #1 – Stuffing Box Leak 10/7/2022



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

Operator: (	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	149943
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By Condition Condition Date 10/12/2022 jharimon None

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Action 149943

Oil Conservation Division

	Page 90 of 9.
Incident ID	nAPP2228347919
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>_&lt;50 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 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)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🖾 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🖂 Yes 🗌 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
- $\boxtimes$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-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.

Received by OCD: 11/28/202	3 8:05:56 AM State of New Mexic			Page 91 of 93
			Incident ID	nAPP2228347919
Page 4	Oil Conservation Divi	sion	District RP	
			Facility ID	
			Application ID	
regulations all operators are re- public health or the environme failed to adequately investigate	· / _)	ase notifications and perform co by the OCD does not relieve the e a threat to groundwater, surface	rrective actions for rele operator of liability sho ce water, human health iance with any other fee mager	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

Received by OCD: 11/28/2023 8:05:56 4M Form C-141 State of New Mexico

Page 5

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	nAPP2228347919
District RP	
Facility ID	
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# **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points  $\boxtimes$ Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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: Kelton Beaird Title: Environmental Manager Date: 11-21-2023 Signature: email:\_\_KBeaird@btaoil.com\_\_\_\_\_\_Telephone:\_\_432-682-3753\_\_ **OCD Only** Received by: <u>Shelly Wells</u> Date: <u>11/28/2023</u> Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

CONDITIONS

Operator:	OGRID:	
BTA OIL PRODUCERS, LLC	260297	
104 S Pecos	Action Number:	
Midland, TX 79701	288737	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

### CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved.	3/18/2024
amaxwell	To address reclamation activities in combination with remediation activities, the reclamation report must include:	3/18/2024
amaxwell	Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/18/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/18/2024
amaxwell	OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/18/2024
amaxwell	Submit a report via the OCD permitting portal by July 19, 2024.	3/18/2024

CONDITIONS

Action 288737