

October 16, 2023

New Mexico Oil Conservation Division

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

Re: Closure Request

Mesa B #2 Tank Battery

Incident Number nAPP2113973789

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, delineation, and soil sampling activities performed at the Mesa B #2 Tank Battery (Site). The purpose of the Site assessment, delineation, and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a historical produced water release at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Request*, describing Site assessment and delineation activities that have occurred and requesting closure for Incident Number nAPP2113973789.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 7, Township 26 South, Range 33 East, in Lea County, New Mexico (32.05100°, -103.60600°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 19, 2021, a stud sheared on the top cap of a pressure pump allowing produced water to spray from under the loosened cap. Approximately 45 barrels (bbls) of produced water sprayed onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 33 bbls of released produced water were recovered. The saturated surface soil was scraped up during initial spill response activities. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 28, 2021. The release was assigned Incident Number nAPP2113973789.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04547, located approximately 0.2 miles north of the Site. The groundwater well was drilled during July 2021 for

BTA Oil Producers, LLC Closure Request Mesa B #2 Tank Battery

determination of regional groundwater depth. The well was drilled to a total depth of 112 feet bgs and has a recorded depth to groundwater of 89.5 feet bgs. The borehole was subsequently abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1. The associated well records are included in Appendix A.

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

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

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

TPH: 2,500 mg/kg

Chloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 25, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141, the documented release extent, and visual observations. Impacted soil was documented to have been scraped up during initial spill response activities. No visible indications of the historical release were observed during the Site visit. Six assessment soil samples (SS01 through SS10) were collected within and around the release extent, at a depth of approximately 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the May 19, 2021, produced water release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment soil samples SS01 through SS06, collected within the historical release extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for assessment samples SS07 through SS10, collected around the release extent, were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the release. Vertical delineation activities were warranted to further confirm the absence of impacted soil within the release area.



BTA Oil Producers, LLC Closure Request Mesa B #2 Tank Battery

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On September 15, 2023, Ensolum personnel returned to the Site to complete vertical delineation activities to confirm the absence of impacted soil within the historical release area. Boreholes were advanced via hand auger at the location of assessment samples SS01 through SS06. The boreholes were advanced to depths ranging from 3 feet to 4 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected from the boreholes at depths ranging from 1-foot to 4 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures previously described. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for the delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and provided vertical delineation to the most stringent Table I Closure Criteria at five locations within the release extent. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the May 19, 2021, release of produced water. Laboratory analytical results for the delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and provided lateral and vertical delineation to the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no impacted soil was identified and no further remediation is required.

Initial response efforts and natural attenuation have mitigated impacts at this Site. Depth to groundwater is greater than 51 feet bgs within 0.5 miles of the Site and no other sensitive receptors were identified near the release extent. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2113973789. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included in Appendix F.

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

Sincerely, **Ensolum, LLC**

Hadlie Green Project Geologist

cc: Kelton Beaird, BTA

Bureau of Land Management

Aimee Cole

Senior Managing Scientist

BTA Oil Producers, LLC Closure Request Mesa B #2 Tank Battery

Appendices:

Figure 1 Site Receptor Map

Figure 2 Assessment Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

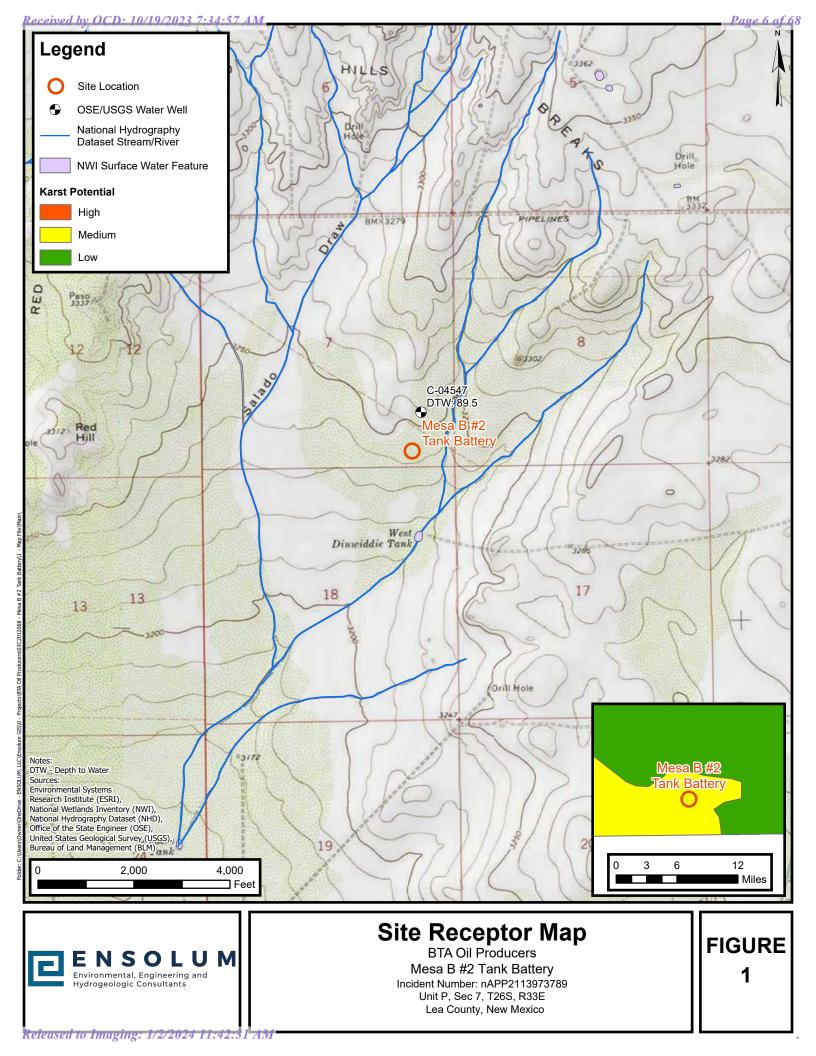
Appendix C Lithologic/Soil Sampling Logs

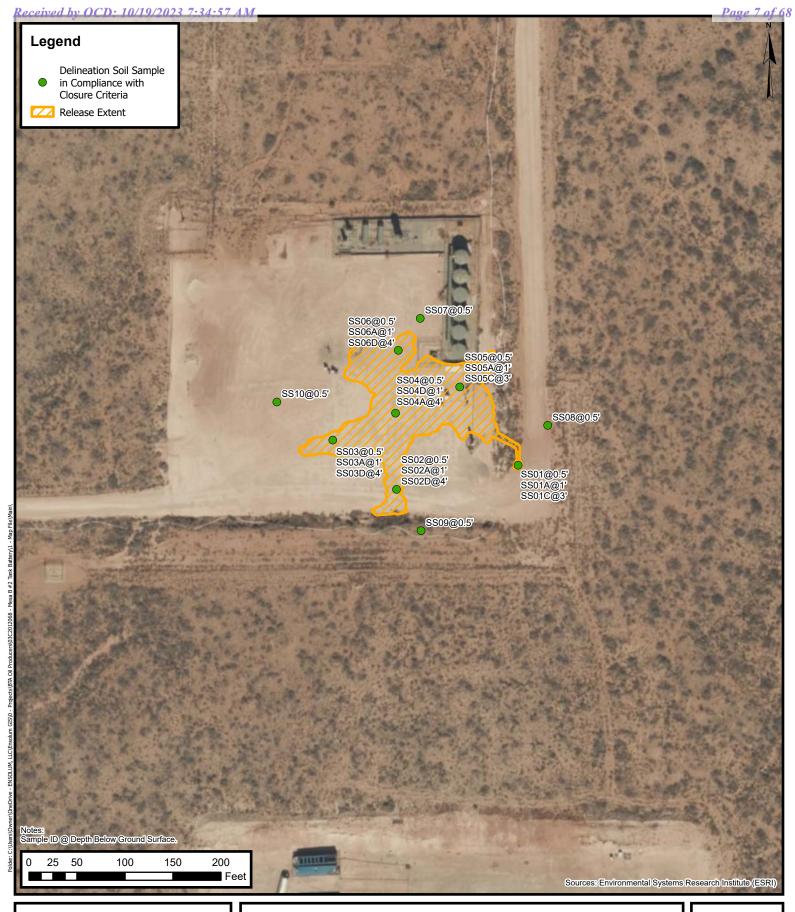
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications Appendix F Final Form C-141



FIGURES







Assessment Soil Sample Locations

BTA Oil Producers
Mesa B #2 Tank Battery
Incident Number: nAPP2113973789
Unit P, Sec 7, T26S, R33E
Lea County, New Mexico

FIGURE 2



TABLES

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TABLE I SOIL SAMPLE ANALYTICAL RESULTS Mesa B #2 Tank Battery BTA Oil Producers, LLC Lea County, New Mexico

	Lea County, New Mexico												
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000			
				Assessment	and Delineation	Soil Samples							
SS01	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0			
SS01A	09/15/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SS01C	09/15/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			
SS02	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240			
SS02A	09/15/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112			
SS02D	09/15/2023	4.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0			
SS03	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128			
SS03A	09/15/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288			
SS03D	09/15/2023	4.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0			
SS04	08/25/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	976			
SS04A	09/15/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176			
SS04D	09/15/2023	4.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			
SS05	08/25/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,640			
SS05A	09/15/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992			
SS05C	09/15/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640			
SS06	08/25/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
SS06A	09/15/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0			
SS06D	09/15/2023	4.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
SS07	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SS08	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SS09	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
SS10	08/25/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in ${\bf bold}$ exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Ensolum 1 of 1

^{*} indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg



APPENDIX A

Referenced Well Records



DSE DII AUG 2 2021 PM4:44

									· · · ·			
NO	OSE POD NO. POD1 (M		.)		WELL TAG ID NO n/a			OSE FILE NO(S C-4547	S).		·	
ОСАТІ	WELL OWNE BTA Oil Pi	٠,						PHONE (OPTIC	ONAL)			
WELL L	WELL OWNE 104 S. Peco		ADDRESS					CITY Midland		STATE	79701	ZIP
GENERAL AND WELL LOCATION	WELL	N LA	DE	EGREES 32	MINUTES 3	SECOI 14.		* ACCURACY	REQUIRED: ONE TENT	TH OF A	SECOND	
ERA	(FROM GP	s) Loi	NGITUDE	103	36	16.	96 W	* DATUM REC	QUIRED: WGS 84			
1. GEN	DESCRIPTION NE SE SE		NG WELL LOCATION TO 26S R33E	STREET ADD	RESS AND COMMO	N LANDM	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AV	AILABLE	
	LICENSE NO 124		NAME OF LICENSED		Jackie D. Atkins	.			NAME OF WELL DRI Atkins Eng		COMPANY g Associates, I	nc.
	DRILLING ST 07/15/2		DRILLING ENDED 07/15/2021		MPLETED WELL (F			LE DEPTH (FT) 112	DEPTH WATER FIRS	T ENCC		
z	COMPLETED	WELL IS:	ARTESIAN	DRY HO	LE 📝 SHALLO	OW (UNCC	NFINED)		STATIC WATER LEV	EL IN 0 89.		LL (FT)
Į Į	DRILLING FI	LUID:	✓ AIR	☐ MUD	ADDITIV	/ES – SPE	CIFY:		<u> </u>			
RMA	DRILLING M	ETHOD:	ROTARY	НАММЕ	R CABLE	rool	OTHE	R – SPECIFY:	Hollo	w Ster	n Auger	
2. DRILLING & CASING INFORMATION	DEPTH ((feet bgl) TO	BORE HOLE DIAM		MATERIAL ANI GRADE			ASING NECTION	CASING INSIDE DIAM.		ING WALL	SLOT
ASIIN			(inches)		each casing string sections of screen		Т	YPE ling diameter)	(inches)		(inches)	(inches)
& C	0	21	±8.5		Boring- HSA	-						-
ING	21	112	±3.5	Bo	oring- Air Rotary							-
SILL												
2. Di				<u> </u>								<u> </u>
				ļ							<u>.</u>	
	<u> </u>			<u> </u>					<u> </u>	<u> </u>		<u> </u>
ر ا	DEPTH		BORE HOLE DIAM. (inches)		IST ANNULAR S VEL PACK SIZE				AMOUNT (cubic feet)		METHO PLACEN	
ANNULAR MATERIAL	FROM	ТО	DIAN. (menes)	UKA-	VEL FACK SIZE	-KANG	S D I IIVIE	EKVAL	(cubic feet)		TEACEN	
ATE				<u> </u>						-+		
<u>X</u>	 			.						\dashv		
Y				<u> </u>								
				<u> </u>							*	
3. A												
FOR	OSE INTER	NAL USE					#(#)	WR-2	0 WELL RECORD	& LOG	(Version 06/3	0/17)
⊢—	E NO. (451	1		POD NO	D. \		TRN	NO. 698	52	91	
LOC	CATION 1	105-	33F-0	7 (ナーローコ		- 1	WELL TAG II	DNO. AJA		PAGE	1 OF 2

OSE DIT AUG 2 2021 pm4:44

F===							
	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZON (attach supplemental sheets to fully describe all units)	VES	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	4	4	Caliche, Consolidated , White		Y √N	
	4	44	40	Sand, Fine-grained, poorly graded, with caliche gravel, Redish Bro	wn	Y ✓N	
	44	51	7	Clay, Stiff, Dark Brown,		Y ✓N	
	51	103	52	Sandstone, Fine-grained, poorly graded, Tan Brown		✓Y N	
						Y N	
;						Y N	
4. HYDROGEOLOGIC LOG OF WELL						Y N	
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💆						Y N	
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) (Table 1)	022 E0 20				Y N	
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	PUMI	, []VI	IR LIFT	BAILER OTHER - SPECIFY:		z rieco (gpiii).	0.00
PERVISION	WELL TES	STAR	ORMATION: Te	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN O mporary well materials removed and the soil boring plugged using ment slurry of <6.0 gallons of water per 94 lbs sack of Portland T	VER THI	E TESTING PERI	OD. pth and landed
TEST; RIG SUPERVI			Plu	agging Record			
				VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CO	NSTRUC	TION OTHER T	HAN LICENSEE:
S.	Shane Eldric	lge, Camer	on Pruitt, Carme	elo Trevino			
SIGNATURE	CORRECT F	ECORD OF	THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BE ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL D DAYS AFTER COMPLETION OF WELL DRILLING:	LIEF, TI RECOR	HE FOREGOING D WITH THE ST	IS A TRUE AND TATE ENGINEER
6. SIGN	Jack A	tkins		Jackie D. Atkins		07/29/2021	
		SIGNAT	JRE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
	OSE INTERN	NAL USE	-7		ELL REC	CORD & LOG (V	ersion 06/30/2017)
	ENO.	1 27	alar no	POD NO. TRN NO.	•		<u></u>
LOC	CATION '	$\psi \supset -1$	7750	1 9-4-2 WELL TAG ID NO). N /	+	PAGE 2 OF 2

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

Final Audit Report

2021-07-29

Created:

2021-07-29

DSE DIT AUG 2 2021 PM4:44

By:

Lucas Middleton (lucas@atkinseng.com)

Status:

Signed

Transaction ID:

CBJCHBCAABAA3aQOFUKeCXoHbozKpK1XeoMdI53lwclm

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

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-07-29 8:40:54 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-07-29 8:41:43 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-07-29 8:43:29 PM GMT- IP address: 64.90.153,232
- Document e-signed by Jack Atkins (jack@atkinseng.com)
 Signature Date: 2021-07-29 8:44:00 PM GMT Time Source: server- IP address: 64.90.153.232
- ✓ Agreement completed. 2021-07-29 - 8:44:00 PM GMT





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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Groundwater ✓ New Mexico ✓ GO

Click to hideNews Bulletins

- How are we doing? We want to hear from you. Take our quick survey to tell us what you think.
- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320249103342101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320249103342101 26S.33E.09.443142

Lea County, New Mexico

Table of data

Latitude 32°02'49", Longitude 103°34'21" NAD27

Land-surface elevation 3,283 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Tab-separa	ted data									
Graph of da	ata .									
Reselect pe	riod									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measure
1954-07-2	6	D	62610		3174.82	NGVD29	1		z	
1954-07-2		D	62611	100.00	3176.40	NAVD88	1		Z	
1954-07-2	ь	D	72019	106.60			1		Z	

Ex	pla	nat	ion

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments Automated retrievals <u>Help</u> Data Tips Explanation of terms
Subscribe for system changes **News**

FOIA Accessibility Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2023-09-06 11:02:02 EDT

0.31 0.26 nadww02





APPENDIX B

Photographic Log



Photographic Log

BTA Oil Producers, LLC Mesa B #2 Tank Battery nAPP2113973789





Photograph: 1 Date: 8/25/2023

Description: Assessment activities, release footprint

View: Northwest

Photograph: 2 Date: 9/15/2023

Description: Delineation with backhoe

View: Southwest





Photograph: 3 Date: 9/15/2023

Description: Delineation with Hand Auger

View: North

Photograph: 4 Date: 9/15/2023

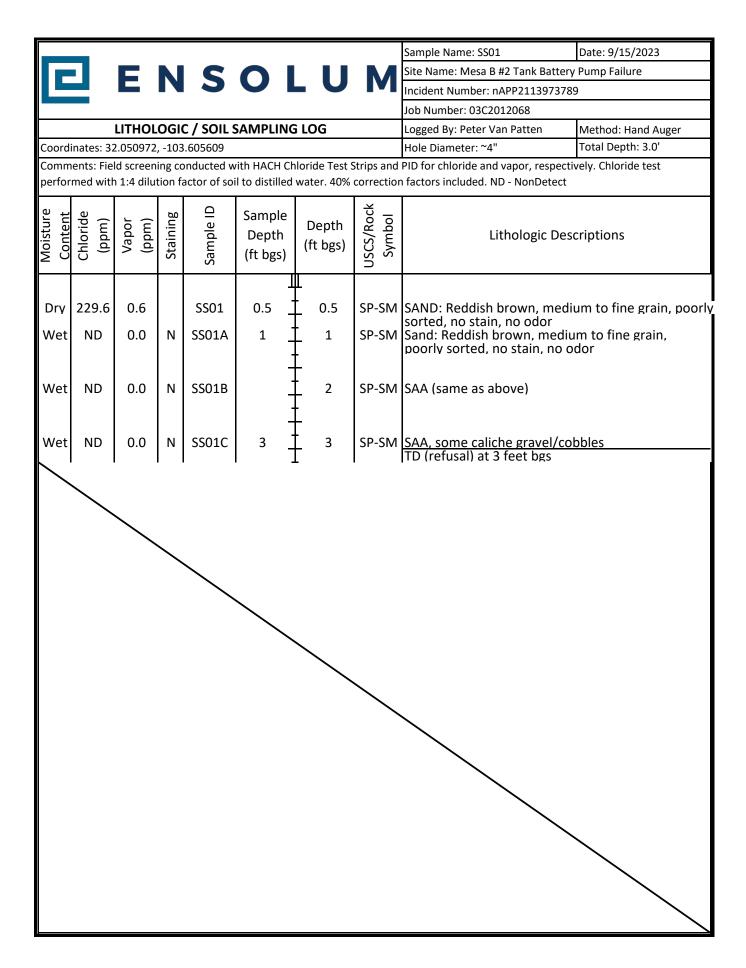
Description: Delineation with Hand Auger

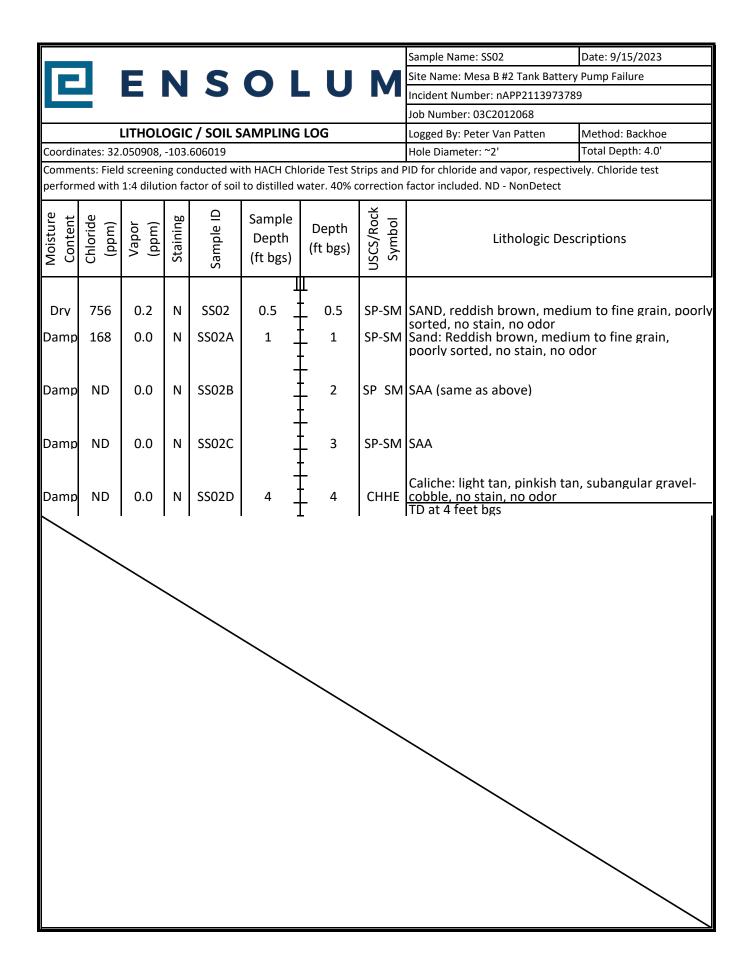
View: Northwest

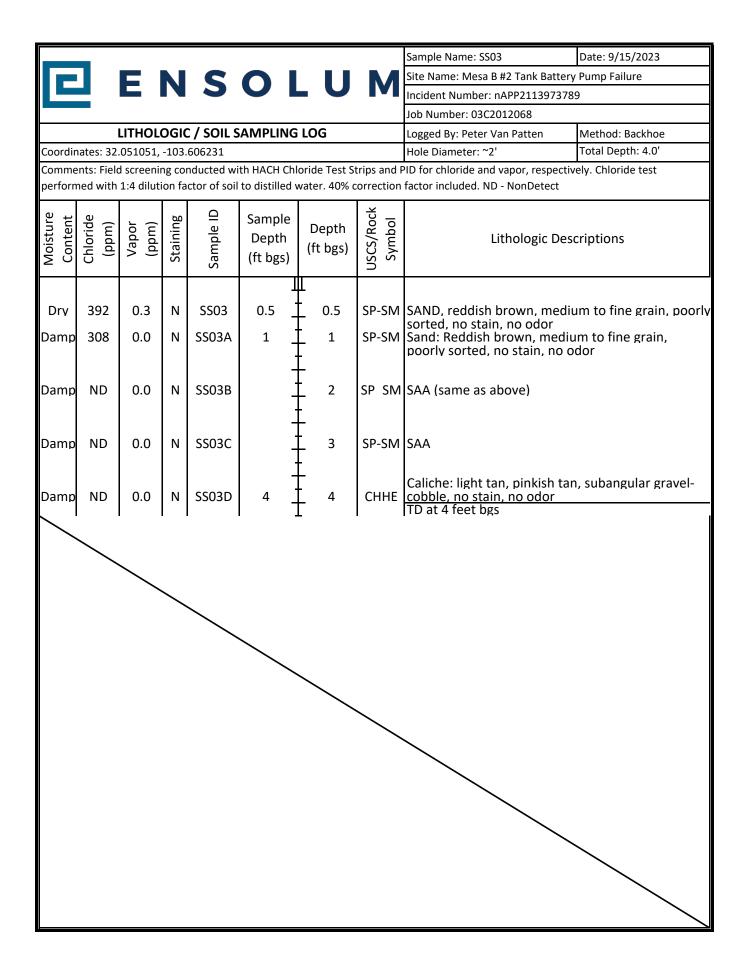


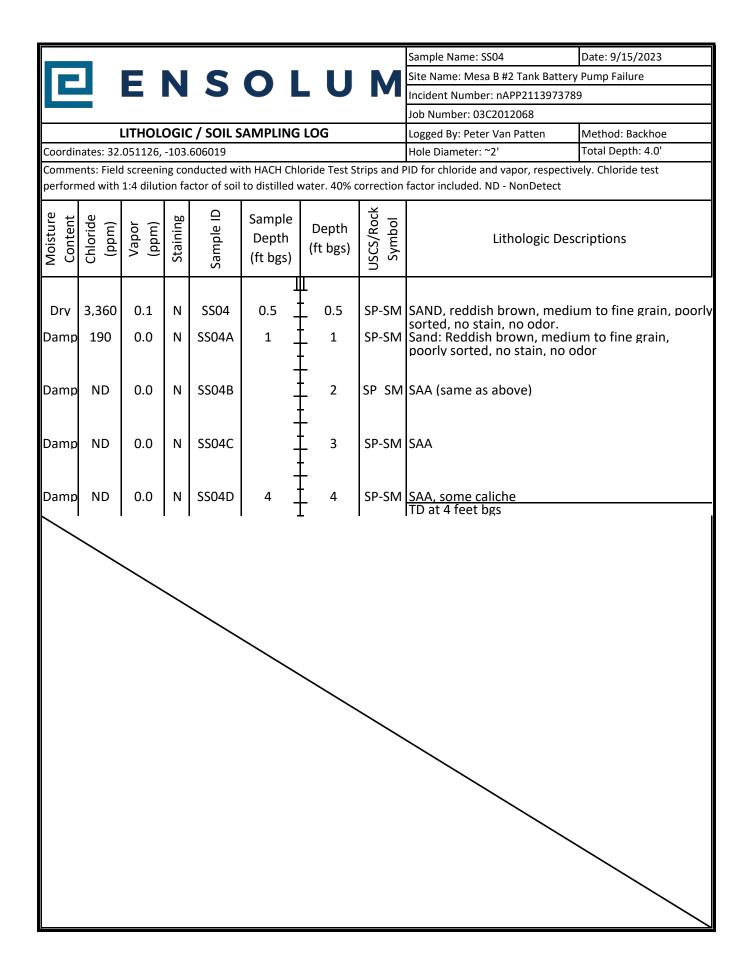
APPENDIX C

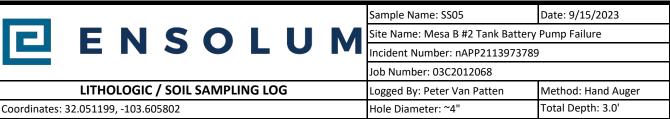
Lithologic Soil Sampling Logs





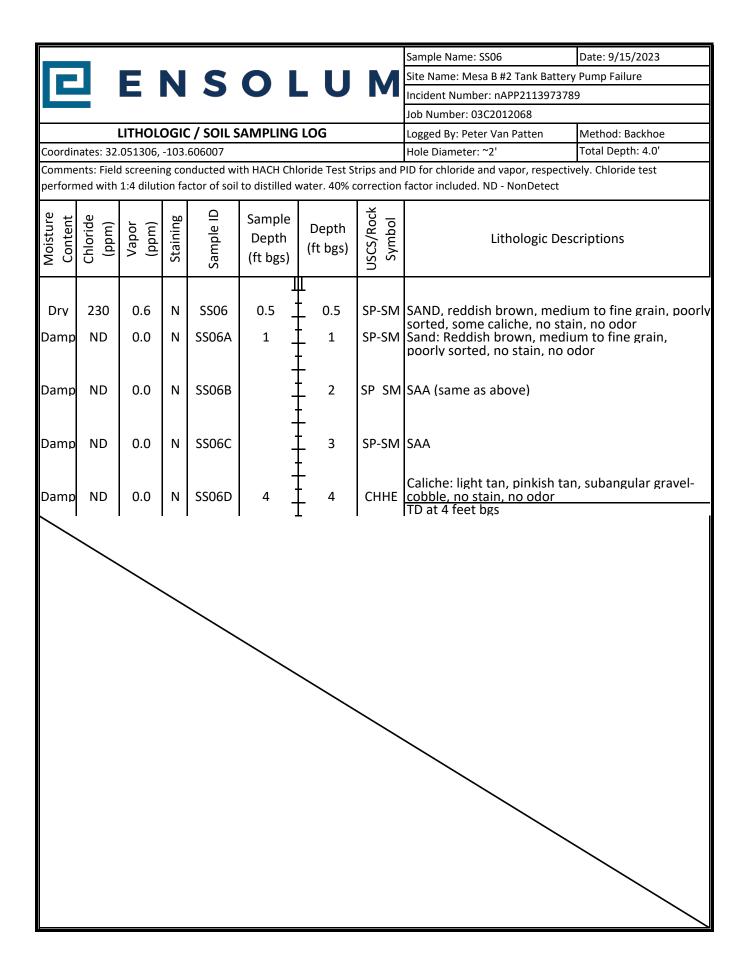






Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - NonDetect

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	I		
Dry	12,130	0.7	N	SS05	0.5	0.5	SP-SM	SAND, reddish brown, medium to fine grain, poorly
Damp	1,204	0.0	N	SS05A	1 _	1	SP-SM	sorted, caliche gravel mix, no stain, no odor Sand: Reddish brown, medium to fine grain, poorly sorted, some caliche, no stain, no odor
Damp	935	0.0	N	SS05B	- - - -	<u> </u>	SP SM	SAA (same as above), no caliche
Damp	778	0.0	N	SS05C	3	3	SP-SM	SAA, some caliche gravel/cobbles TD (refusal) at 3 feet bgs





APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



September 05, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA B #2 TANK BATTERY - PUMP FAILURE

Enclosed are the results of analyses for samples received by the laboratory on 08/29/23 13:00.

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

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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 08/29/2023 Sampling Date: 08/25/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: MESA B #2 TANK BATTERY - PUMP FAIL Sampling Condition: Cool & Intact
Project Number: 03C2012068 Sample Received By: Shalyn Rodriguez

Project Location: 32.05100,-103.60600

Sample ID: SS 01 0.5' (H234683-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2023	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	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Kreene



Analytical Results For:

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

Received: 08/29/2023 Reported:

09/05/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: Project Number: 03C2012068

Project Location: 32.05100,-103.60600 Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 0.5' (H234683-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 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	08/30/2023	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	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Reported:

09/05/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: Project Number: 03C2012068

Project Location: 32.05100,-103.60600 Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 0.5' (H234683-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/30/2023	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	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Reported: 09/05/2023

MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: MESA B #2 T Project Number: 03C2012068

Project Location: 32.05100,-103.60600

ma/ka

Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 0.5' (H234683-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	08/30/2023	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	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Applyzod By: MC

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Celey & Keene



Analytical Results For:

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

Received: 08/29/2023 Reported: 09/05/2023

09/05/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: MESA B #2 T Project Number: 03C2012068

Project Location: 32.05100,-103.60600

ma/ka

Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 05 0.5' (H234683-05)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Reported: 09/05/2023

MESA B #2 TANK BATTERY - PUMP FAIL

Project Number: 03C2012068

Project Location: 32.05100,-103.60600 Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 06 0.5' (H234683-06)

Project Name:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Reported: 09/05/2023

09/05/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: MESA B #2 T Project Number: 03C2012068

Project Location: 32.05100,-103.60600

Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 07 0.5' (H234683-07)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Reported:

09/05/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: Project Number: 03C2012068

Project Location: 32.05100,-103.60600 Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 08 0.5' (H234683-08)

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	08/30/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/30/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Reported: 09/05/2023

Project Name: MESA B #2 TANK BATTERY - PUMP FAIL

Project Number: 03C2012068

Project Location: 32.05100,-103.60600 Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 09 0.5' (H234683-09)

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	08/30/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/30/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Reported: 09/05/2023

MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: Project Number: 03C2012068

Project Location: 32.05100,-103.60600 Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 10 0.5' (H234683-10)

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	08/30/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/30/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/30/2023	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	<16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Project Manager: Address: 31A City: Carrisb	Hadlie G	Green Hwy		MLL T			ANALYSIS REQUEST	ST
Address: 31 City: Carls	Hadrie G			0				
ess:	Nat'I			0		-		
0		١		Company: DIR O				
	arisbad	State: NY	Zip: 88220	tos	Beaind			
Phone #: 432	432-557-8895	Fax #:			+5 SQ2			
Project #: 03	0362012068	Project Owner:	er:	city: Midland				
Project Name:	Mesa 8 #2 -	Tank Battery	M- Pumo Failure	TX Zin:	19701			
Project Location:	32.05100	-103.60600	-	# 423.2	0.7702	-		
Sampler Name:	Meredith	Roberts		- 1	-			
FOR LAB USE ONLY			MATRIX	SERV.	SAMPLING			
Lab I.D.	Sample I.D.	Depth (feet)		THER: DID/BASE: E/COOL THER:		hlorides PH		
1	5501	0.5	→ # V × s	A	TIME	_	+	-
2	5502				-)	-)		
Cr	\$503							
4	\$504							
5	8805							
se	8506							
6	1000							
200	8088							
0/	0188	+	\	•	<	¢		
PLEASE NOTE: Liability and to malyses. All claims including to ervice. In no event shall Card ffiliates or successors arising of	Y LEAGE MOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim malyers. All claims including those for negligance and any other crase whitabooier shall be devened wholes. In ne event shall Cardinal be fisable for incidental or consequental damages, including without difficults or especially a shall be a shall be shall be shall be shall be stronger of services hereunded by Cardinal 1.	lient's exclasive remedy for any course whatisever shall be de- course whatisever shall be de- equental damages, including we are of services hereunder by Carr	I EASE NOTE: Liabity and Damages. Cardinal's liabitly and clients exclusive remody for any chain artising whether based in contract or bot, shall be limited to the amount paid by the client for the makes. All clients including those for neighbore and any other cause wistbowner shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable solve. In no event shall Cardinal be faible for included or consequental domages, including which plantation, business interruptions, loss of use, or base of profile incurred by client, its subaddissics, difficient or successors arising out of or related to the performance of survices hereunder by Cardinal to accessors arising out of or related to the performance of survices hereunder by Cardinal Transfer.	artivity whether based in contract or tort, shall be limited to the amount paid by the clear to: the waited unless made in writing and received by Cardinal within 30 days after completion of the a limitation, business intempritees, loss of user, or loss of profits bourned by client, its subsidiaries,	d by the client for the rompletten of the applicable front, its subsidiaries,			-
Relipquished By:	Red	Time: 300	Received By:	men	Verbal Result: 1 Yes All Results are emailed. I hgreen@ensciw	mailed. Please pro	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: horeen@enselum.com myoberts@enselum.com	
		Time:	November Dy.	C	Incident #:	+#: NAPP2	NAPP2113973789	
Delivered By: (Circle One)		Observed Tamp. °C	0.8 Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only) S	Condition
Sampler - UPS - Bus - Other:		Corrected Temp. °C		200	Thermometer ID #113	1		- Comment



September 21, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA B #2 TANK BATTERY - PUMP FAILURE

Enclosed are the results of analyses for samples received by the laboratory on 09/19/23 14:19.

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

Cardinal Laboratories is 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 09/19/2023 Sampling Date: 09/15/2023
Reported: 09/21/2023 Sampling Type: Soil

Project Name: MESA B #2 TANK BATTERY - PUMP FAIL Sampling Condition: Cool & Intact

Project Number: 03C2012068 Sample Received By: Shalyn Rodriguez

Project Location: BTA (32.051,-103.606)

Sample ID: SS 01 A 1' (H235052-01)

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	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	<16.0	16.0	09/20/2023	ND	448	112	400	0.00	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/19/2023 Reported: 09/21/2023

Project Name: MESA B #2 TANK BATTERY - PUMP FAIL

ma/ka

Project Number: 03C2012068

Project Location: BTA (32.051,-103.606)

Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 01 C 3' (H235052-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	16.0	16.0	09/20/2023	ND	448	112	400	0.00	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 09/19/2023 Reported:

09/21/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: Project Number: 03C2012068

Project Location: BTA (32.051,-103.606) Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 A 1' (H235052-03)

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	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	112	16.0	09/20/2023	ND	448	112	400	0.00	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/19/2023 Reported: 09/21/2023

09/21/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: MESA B #2 T Project Number: 03C2012068

Project Location: BTA (32.051,-103.606)

ma/ka

Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 D 4' (H235052-04)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/20/2023	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

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

Received: 09/19/2023 Reported:

09/21/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: Project Number: 03C2012068

Project Location: BTA (32.051,-103.606) Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 A 1' (H235052-05)

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	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/20/2023	ND	448	112	400	0.00	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 09/19/2023 Reported:

09/21/2023 MESA B #2 TANK BATTERY - PUMP FAIL

Project Name: Project Number: 03C2012068

Project Location: BTA (32.051,-103.606) Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 D 4' (H235052-06)

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	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/20/2023	ND	432	108	400	3.64	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 09/19/2023 Reported: 09/21/2023

09/21/2023 MESA B #2 TANK BATTERY - PUMP FAIL

ma/ka

Project Name: MESA B #2 T Project Number: 03C2012068

Project Location: BTA (32.051,-103.606)

Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 A 1' (H235052-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/20/2023	ND	432	108	400	3.64	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



Analytical Results For:

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

Received: 09/19/2023 Reported: 09/21/2023

Project Name: MESA B #2 TANK BATTERY - PUMP FAIL

Project Number: 03C2012068

Project Location: BTA (32.051,-103.606) Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 D 4' (H235052-08)

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	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-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	09/20/2023	ND	432	108	400	3.64	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/19/2023 Reported: 09/21/2023

09/21/2023

ma/ka

MESA B #2 TANK BATTERY - PUMP FAIL

Project Number: 03C2012068

Project Location: BTA (32.051,-103.606)

Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 05 A 1' (H235052-09)

Project Name:

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/20/2023	ND	432	108	400	3.64	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	77.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.3	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 09/19/2023

Reported: 09/21/2023

Project Name: MESA B #2 TANK BATTERY - PUMP FAIL

ma/ka

Project Number: 03C2012068

Project Location: BTA (32.051,-103.606)

Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 05 C 3' (H235052-10)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	640	16.0	09/20/2023	ND	432	108	400	3.64	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	73.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/19/2023 Reported: 09/21/2023

09/21/2023 MESA B #2 TANK BATTERY - PUMP FAIL

ma/ka

Project Name: MESA B #2 T Project Number: 03C2012068

Project Location: BTA (32.051,-103.606)

Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 06 A 1' (H235052-11)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/20/2023	ND	432	108	400	3.64	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 09/19/2023 Reported: 09/21/2023

Project Name: MESA B #2 TANK BATTERY - PUMP FAIL

ma/ka

Project Number: 03C2012068

Project Location: BTA (32.051,-103.606)

Sampling Date: 09/15/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 06 D 4' (H235052-12)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	1.97	98.4	2.00	1.37	
Toluene*	<0.050	0.050	09/20/2023	ND	2.13	107	2.00	4.70	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.28	114	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.79	113	6.00	5.07	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-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	09/20/2023	ND	432	108	400	3.64	
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	09/20/2023	ND	210	105	200	8.43	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	194	97.1	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Company Name: Ensolum, LLC Project Manager: Hadlie Green Address: 601 N Marienfeld Street, Suite 400 City: Midland Stat Phone #: 432-557-8895 Project #: 050000000000000000000000000000000000	et, Suite et, Suite	Suite 400 State: TX Fax #: Project Owner: 103.600 Depth (feet)	GROUNDWATER WASTEWATER VIOLE SLUDGE	P.O. #: Company: BTA O Attn: Kelton Beai Address: 104 S Pa City: Midland State: TX Zip: Phone #: 432-312. Fax #: PRESERV. OTHER: OTH	TA Oil Beaird S Pecos St Zip: 79701 Zip: 79701 Zip: 79701 Time DATE TIME G.15.73, II.0.5.	TPH	× BTEX	× Chlorides	ANALYSIS RE	REQUEST
Address: 601 N Marienfeld: City: Midland Phone #: 432-557-8895 Project #: 0 \$ C 2012 C Project Name: Mesa B Project Location: 32.0 Sampler Name: Peter Van P FOR LABUSE ONLY Lab I.D. Sampl	et, Suite	## State: TX	C (G)RAB OR (C)OMP. — # CONTAINERS GROUNDWATER WASTEWATER V SOIL OIL OIL	Company: BTA O Attn: Kelton Beai Address: 104 S Pe City: Midland State: TX Zip: Phone #: 432-312. Fax #: PRESERV. OTHER: OTHE						
City: Midland Phone #: 432-557-8895 Project #: 0 % C 2012 C Project Name: Mesa B Project Location: 32.0 Sampler Name: Peter Van P FOR LAB USE ONLY #8355053 #8355053 48355053 48355053	103	State: TX -ax #: -roject Owner K Talkry LQQ Depth (feet)	C (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL OIL ATRIX	Attn: Kelton Beai Address: 104 S Po City: Midland State: TX Zip: Phone #: 432-312 Fax #: PRESERV. OTHER: OT	- C St St					
t32-557-1 0%C 0%C cation: M lame: Pe ONLY	103	Project Owner 人 法版好 人 化化 (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL OIL	Address: 104 S Po City: Midland State: TX Zip: Phone #: 432-312. Fax #: PRESERV. OTHER:	St St					
D. ORC	103	Project Owner K Talkery Lexa Depth (feet)	C (G)RAB OR (C)OMP. - # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL NATRIX	OTHER: ACID/BASE: ICE / COOL OTHER: OTHER: ACID/BASE: OTHER:	5 2					
cation: Pe	103	大阪能分 しな。 Depth (feet)	C (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER V SOIL OIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:						
		Depth (feet)	- # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER: OTHER: OTHER: OTHER: OTHER: OTHER:						
Sampler Name: Peter Van P		Depth (feet)	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL RIX	OTHER: ACID/BASE: ICE / COOL OTHER: OTHER:						
Lab I.D. Sampl	le I.D.	Depth (feet)	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:	Ľ					
IN	le I.D.	Depth (feet)	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:						
1 550IA			\ - -	21.6	_		×	×		
				1111	-	×				
21065	1.1	W	()		1115	X	×	×		
3 5502A			C - /	ς	1645	×	×	×		
4 5502D	7	+	C 1 1	~	1100	×	×	×		
S 6503A	1		C /	2	025	X	×	×	2	
5	h 6	+		V	1040	×	×	×		
7 5504A	1		0	,	1005	X	X	X		
4 h056 8	4		611	<	0201	X	×	×		
9 6505 A	100		0 1	<	1120	×	×	*		
10 45050	1.	3		2	1130	+7	×	×		
PLEASE NOTE: Lability and Damages. Cardinal's liability and client's enclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the arialyses. All claims including those for negligence and any other cause whatevers visal be deemed waved unless made in witting and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of uses of profits incurred by client, its authorities of events and interruption of or related to the performance of services hereunder by Cardinal reparations of whether such claim is based upon my of the above stated reasons or otherwise.	imal's liability and client's a lence and any other cause if incidental or consequent to the performance of se	exclusive remedy for any e whatsoever shall be di ital damages, including v ervices hereunder by Ca	any claim arising whether based in contract is deemed walved unless made in writing and gwithout fimilation, business interruptions, it g without fimilation, business interruptions, it continues and whether such claim is	in contract or tort, shall be limited to the wind writing and received by Cardinal within 30 d fruptions, loss of use, or loss of profits incur such claim is based upon any of the above st	nount paid by the client for the days after completion of the a uned by client, its subsidiaries, stated reasons or otherwise.	for the fithe applica laries,	able			
Relinquished By:		Pate 19-33	Received By:	an ex	Verbal Result:	al Result: Desults are ema	□ Yes emailed. F	Yes WNO A led. Please provide	Verbal Result: Pes PNo Add'l Phone #: All Results are emailed. Please provide Email address:	
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:		T.mp. *C	Sample Condition	ion CHECKED BY:	Y: Turnaround Time:	ind Tim	œ.	Standard	Bacteria (onl	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(575) 393-2326	(575) 393-2326 FAX (575) 393-2476	476			
Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO		ANALYSIS REQUEST
Project Manager: Hadlie Green	Hadlie Green			P.O. #:		
Address: 601 N N	Address: 601 N Marienfeld Street, Suite 400	Suite 400		Company: BTA Oil		
City: Midland		State: TX	Zip: 79701	Attn: Kelton Beaird		
Phone #: 432-557-8895	-8895	Fax #:		Address: 104 S Pecos St	St	
Project #: 030	89020208	Project Owner:	a	City: Midland		
-	1 2 2 4 2 150 K	- 20	no Fribus	State: TX Zip: 79701	3	
Project Location: 32,051	1	03,60	c	Phone #: 432-312-2203		
Sampler Name: Peter Van Patten				Fax #:		
FOR LAB USE ONLY			MATRIX	PRESERV. SAM		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX	
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9	9506 P	4	0 -	(× × × 566	
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				A STATE OF THE PROPERTY OF THE		
			14	7		
PLEASE NOTE: Lability and it analyses. All claims including service. In no event shall Card	PLEASE NOTE: Labilty and Damages. Cardinal's lability and ofients o analyses. All claims including those for negligence and any other cause service. In no event shall Cardinal be liable for noderalls or consequent service.	exclusive rem e whatsoever dal damages,	edy for any claim arising whether based in contra shall be deemed waived unless made in writing a including without limitation, business interruption have be Condinat repeatations of whether such data	only for any claim arrang whether based in contract or tort, shall be limited to the amount pad by the client for the shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable including without limitation, business interruptions, loss of use, or loss of grofts sourced by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of grofts sourced by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of grofts sourced by client, its subsidiaries.	unt paid by the client for the yea after completion of the applicable vol by client, its subsidiantes.	
Relinquished By:	一种	Date O	Received By:	men	Verbal Result: Pes PNo Add All Results are emailed. Please provide E	Please provide Email address:
Relinquished By:		Date: Time:	Received By:	000	REMARKS:	
Delivered By: (Circle One)	cle One)	Observed Temp C	Sample Condition	ition CHECKED BY:	Turnaround Time: Standard	
Sampler - UPS - Bus - Other:	us - Other:	Corrected Temp. "C	□ Q Ye	X.	Correction Factor 0.5°C # 40	No No No



APPENDIX E

NMOCD Notifications

From: Wells, Shelly, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/24/2023

Date: Wednesday, July 19, 2023 2:52:23 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Good afternoon 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 Administrative Permitting Program 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: Wednesday, July 19, 2023 1:36 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/24/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of July 24, 2023.

- Chiso 14 State Jet Pump and Excavation / nAPP2205837214
 - Sampling Date: 7/25-26/2023 @ 9:00 AM MST

Mesa #2H Tank Battery / NRM2026945362

- Sampling Date: 7/27/2023 @ 9:00 AM MST
- Mesa B #2 Tank Battery / nAPP2113973789
 - Sampling Date: 7/28/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: <u>Buchanan, Michael, EMNRD</u>
To: <u>Hadlie Green; Enviro, OCD, EMNRD</u>

Cc: Kelton Beaird; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 09/11/2023

Date: Wednesday, September 6, 2023 2:31:06 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Good afternoon, 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,

Mike Buchanan • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.490.0798 | michael.buchanan@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Hadlie Green hgreen@ensolum.com Sent: Wednesday, September 6, 2023 9:52 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kelton Beaird < KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 09/11/2023

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 September 11, 2023.

- Mesa 8105 JV-P 013H / NCH1835547953, NAB1906552791, NAB1906551740
 - Sampling Date: 9/11/2023 @ 9:00 AM MST
- Mesa 8105-JV-P 004H / nOY1831160155
 - Sampling Date: 9/12-13/2023 @ 9:00 AM MST
- Rojo 18/19 & 38/39 Tank Battery / nAPP2103447746
 - Sampling Date: 9/12-13/2023 @ 9:00 AM MST
- Mesa 8105 JV-P #4H / nRM2004549559
 - Sampling Date: 9/14/2023 @ 9:00 AM MST
- Chiso 14 State Jet Pump Excavation / nAPP2205837214
 - Sampling Date: 9/14-15/2023 @ 9:00 AM MST
- Mesa B #2 Tank Battery / nAPP2113973789
 - Sampling Date: 9/15/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist 432-557-8895

hgreen@ensolum.com Ensolum, LLC

Liisoidiii, i



APPENDIX F

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2113973789
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.com	Incident # (assigned by OCD) nAPP2113973789
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.05100 Longitude: -103.60600

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa B #2 Tank Battery	Site Type: Tank Battery
Date Release Discovered: 5/19/2021	API# (if applicable) Nearest well: Mesa B 8115 JVP Com #002H API #30-025-42125
	API #30-025-42125

Unit Letter	Section	Township	Range	County
Р	7	26S	33E	Lea

Surface Owner: State Federal Tribal Private (*Name:*)

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)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 45 BBL	Volume Recovered (bbls) 33 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		
Pump Failure.		
•		
A stud sheared on the	e top cap of a pressure pump allowing water	to spray from under the loosened cap. Water
was released across a	a portion of the caliche pad and in an off-pad	area
l vas released del oss c	portion of the cancile pad and in an on pad	ai ca.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	nAPP2113973789	
District RP		
Facility ID		
Application ID		

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? The spill volume was greater than 25 BBL, which the NMOCD Rules define as a major				
⊠ Yes □ No	release.				
•	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? It by Bob Hall to ocd.enviro@state.nm.us, Mike Bratcher, and Jim Amos (BLM) on				
	Initial Response				
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury				
☐ The source of the rele	ease has been stopped.				
<u> </u>	as been secured to protect human health and the environment.				
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.				
All free liquids and recoverable materials have been removed and managed appropriately.					
If all the actions described above have <u>not</u> been undertaken, explain why:					
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.				
regulations all operators are public health or the environ failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have rate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws				
Printed Name: Bob Hal	Title: Environmental Manager				
Signature: 7	Date: 5/28/2021				
email: bhall@btaoil.co	om Telephone: 432-682-3753				
OCD Only					
Received by: Ramona	Marcus Date: 5/28/2021				
-					

 Location
 Mesa B #2H

 API #
 30-025-42125

 Spill Date
 5/19/2021

Spill Dimensions

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

ENTER - Porosity Factor

2 inches
0.03 decimal

117 feet

117 feet

Oil Cut - Well Test / Vessel Throughput or Contents

Oil Water

Calculated Oil Cut

0.00001
1
1E-05

Volume Recovered in Truck / Containment

ENTER - Recovered Oil **ENTER** - Recovered Water

0 **BBL** 33 **BBL**

Calculated Values

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

Calculated Values

Total Release of Oil
Total Release of Water
Total Release

cal	cul	ated	

0	BBL
12	BBL
12	BBL

calculated

BBL	0
BBL	45
BBL	45

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 ft³ / BBL

X

Oil Cut (or Water Cut)

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 29922

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	29922
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	5/28/2021

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Incident ID	nAPP2113973789
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.

□ Ves ⊠ No			
103/4 110			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ 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.			
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-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: 10/19/2023 7:34:57 AM Form C-141 State of New Mexico Oil Conservation Division Page 4

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Incident ID	nAPP2113973789
District RP	
Facility ID	
Application ID	

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

te: 10/16/2023	Date:	Signature:
elephone: 432-312-2203	Telephone:	email: KBeaird@btaoil
		OCD Only
Date:	Date: _	Received by:
Date:	Date: _	

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	1 480 07 09
Incident ID	nAPP2113973789
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

	-	
□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC)	District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.	
OCD Only		
Received by:	Date:	
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.	
Closure Approved by: Scott Rodgers	Date:01/02/2024	
Printed Name: Scott Rodgers	Title: Environmental Specialist Adv.	

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

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 277237

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	277237
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	1/2/2024