

November 30, 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 Closure Request

Mesa B #2 SWD

Incident Number NOY1826826475

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Revised Closure Request* to document assessment, delineation, and soil sampling activities performed at the Mesa B #2 SWD (Site). The purpose of the Site assessment, delineation, and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a historical produced water release at the Site. Based on field observations, additional delineation activities, and soil sample laboratory analytical results, BTA is submitting this *Revised Closure Request*, requesting no further action for Incident Number NOY1826826475.

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 (32.05356°, -103.60563°) and is associated with oil and gas exploration and production operations on Private Land.

On September 11, 2018, internal corrosion in the pump vibration dampener caused the release of approximately 66 barrels (bbls) of produced water. The released fluids affected approximately 9,143 square feet of the well pad and flowed off-pad to the south along a dry drainage for approximately 300 feet. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 30 bbls of produced water were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 20, 2018 and October 1, 2018 (revised). The release was assigned Remediation Permit Number (RP) Number 1RP-5202 and Incident Number NOY1826826475.

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 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

BTA Oil Producers, LLC Closure Request Mesa B #2 SWD

groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04547, located at the Site. The well was drilled to a depth of 112 feet during July 2021 and groundwater was encountered at a depth of 89.5 feet bgs. Following determination of depth to groundwater, the well was plugged and abandoned following NMOSE procedures. The referenced well records are included in Appendix A. All wells used for depth to groundwater determination are depicted on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

Between August 7 and November 21, 2023, Ensolum personnel were at the Site to evaluate the historical release extent based on information provided on the Form C-141, the documented release extent, and visual observations. No visible indications of the historical release were observed during the Site visit. Boreholes BH01 through BH05 were advanced via hand auger within the documented release extent to assess for the presence or absence of impacted soil resulting from the historical produced water release. Soil from the boreholes was field screened at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Discrete delineation soil samples were collected from the boreholes at depths ranging from 0.5 feet to 4 feet below ground surface (bgs). Additionally, assessment soil samples SS01 through SS06 were collected around the historical release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the surface release. The assessment and delineation 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 visits and a photographic log is included as Appendix C.

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

BTA Oil Producers, LLC Closure Request Mesa B #2 SWD

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 the delineation soil samples collected from boreholes BH01 through BH05, advanced within the historical release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Additionally, the final depth delineation sample from boreholes BH01 through BH05 provided vertical delineation of the release to below the most stringent Table I Closure Criteria. Laboratory analytical results for assessment soil samples SS01 through SS06, collected around the historical release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and defined the lateral extent of the release. Based on the laboratory analytical results, no further remediation is required at this time. 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 September 11, 2018, release of produced water. Laboratory analytical results for the assessment and delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Additionally, the release was laterally and vertically delineated to the most stringent Table I Closure Criteria. Based on laboratory analytical results, no further remediation is required at this time. However, soil on the well pad exceeding the reclamation requirements of NMAC 19.15.29.13.D (1) will be removed during plugging and abandonment of the well and final reclamation of the well pad.

Initial response efforts and natural attenuation have mitigated impacts at this Site. Depth to groundwater is greater than 51 feet bgs and no 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 NOY1826826475. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included as 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

Aimee Cole

Senior Managing Scientist



BTA Oil Producers, LLC Closure Request Mesa B #2 SWD

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic Soil Sampling Logs

Appendix C Photographic Log

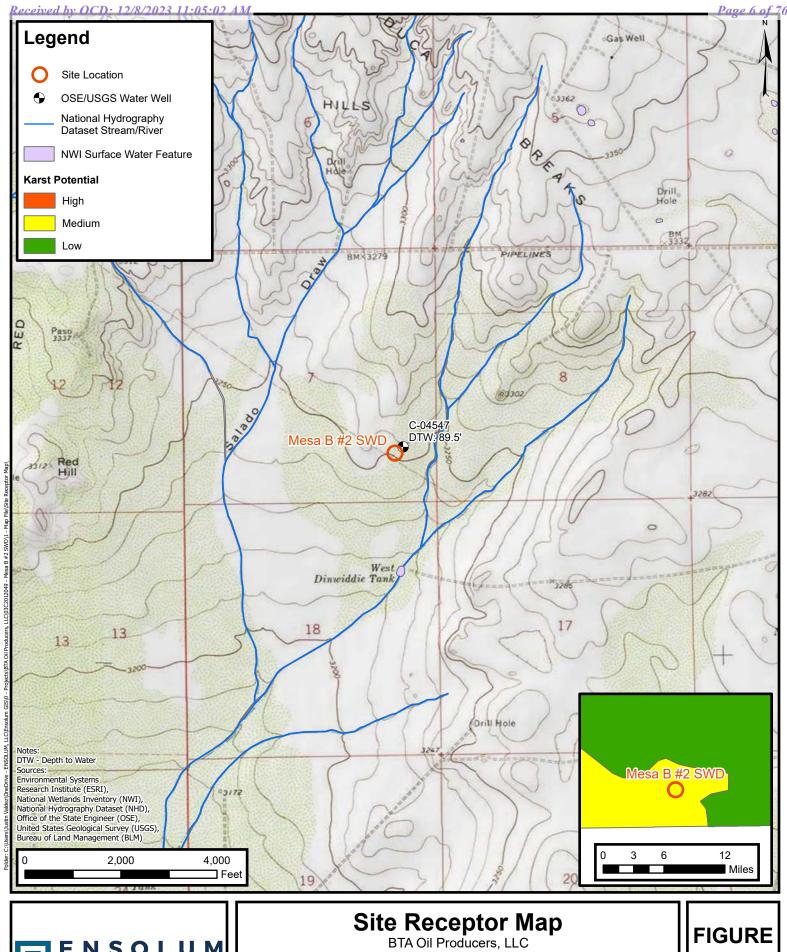
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications

Appendix F Form C-141



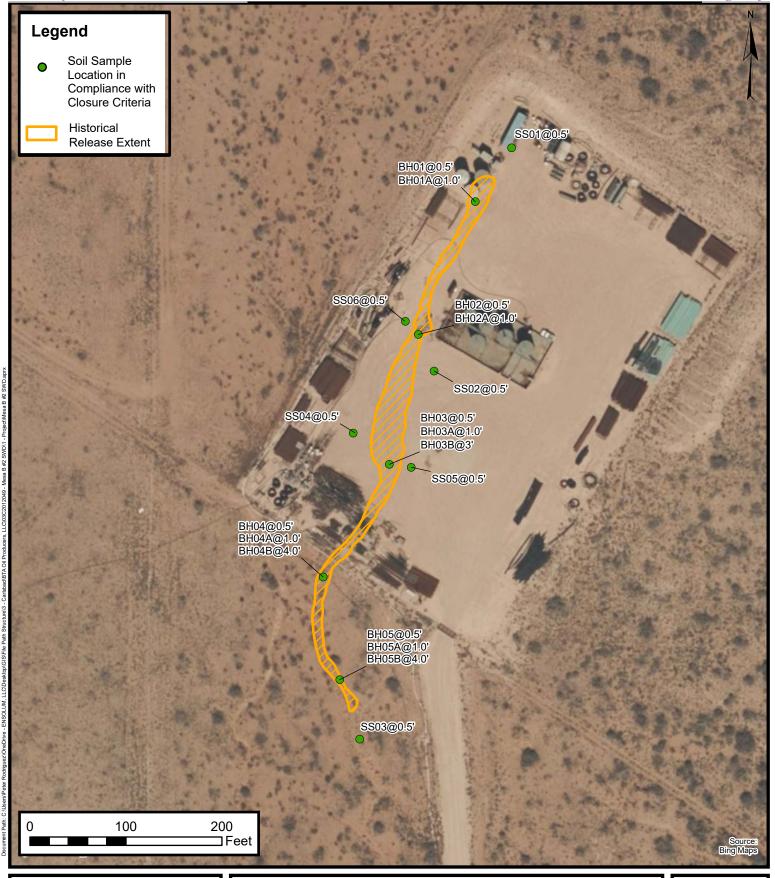
FIGURES





Mesa B #2 SWD Incident Number: NOY1826826475 Unit P, Section 7, Township 26 South, Range 33 East Lea County, New Mexico

Released to Imaging: 12/15/2023 8:11:46 AM





Delineation Soil Sample Locations

BTA Oil Producers, LLC
Mesa B #2 SWD
Incident Number: NOY182682647
Unit P, Section 7, Township 26 South, Range 33 East
Lea County, New Mexico

FIGURE 2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Mesa B #2 SWD BTA Oil Producers, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Del	ineation Soil Sa	amples				
BH01	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH01A	08/07/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
BH02A	08/07/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
BH03	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,440
BH03A	08/07/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
BH03B	11/21/2023	3.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH04*	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04A*	08/07/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04B	08/16/2023	4.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH05*	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05A*	08/07/2023	1.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH05B	08/16/2023	4.0	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
				Ass	essment Soil S	amples				
SS01	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS02	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS03*	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS05	11/16/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS06	11/16/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240

Notes:

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

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NA: Not Analyzed

Ensolum 1 of 1

 $^{^{\}star}$ Indicates soil sample was collected in an area to be reclaimed following remediation.



APPENDIX A

Referenced Well Records



OSE DII AUG 2 2021 PM4:44

									· · · ·			
NO O	OSE POD NO. POD1 (M		.)		WELL TAG ID NO n/a			OSE FILE NO(S C-4547	S).		·	
ОСАТІ	WELL OWNE BTA Oil Pr	. ,						PHONE (OPTIC	ONAL)			
WELL L	WELL OWNE 104 S. Peco		ADDRESS					CITY Midland		STATE	79701	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO	N LAT	DE	GREES 32	MINUTES 3	SECON 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 ADDI	RESS AND COMMO	N LANDM	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AV	AILABLE	
	LICENSE NO		NAME OF LICENSED		Jackie D. Atkins	·			NAME OF WELL DRI Atkins Eng		COMPANY g Associates, I	nc.
	DRILLING ST 07/15/		DRILLING ENDED 07/15/2021		MPLETED WELL (F			LE DEPTH (FT) 112	DEPTH WATER FIRS	T ENCC		
z	COMPLETE	WELL IS:	ARTESIAN	DRY HO	LE 📝 SHALLO	OW (UNCC	NFINED)		STATIC WATER LEV	EL IN 0 89.		LL (FT)
OIL	DRILLING FI	LUID:	✓ AIR	☐ MUD	ADDITIV	/ES – SPE	CIFY:		<u> </u>			
RMA	DRILLING M	ETHOD:	ROTARY	П намме	R CABLE 1	rool	У ОТНЕ	R – SPECIFY:	Hollo	w Ster	n Auger	
2. DRILLING & CASING INFORMATION	DEPTH FROM	(feet bgl)	BORE HOLE DIAM	CASING	MATERIAL ANI GRADE	D/OR		ASING NECTION	CASING INSIDE DIAM.		ING WALL	SLOT SIZE
VISIN			(inches)		each casing string, sections of screen		1	YPE ling diameter)	(inches)		(inches)	(inches)
& C	0	21	±8.5		Boring- HSA				•-			-
ING	21	112	±3.5	Во	oring- Air Rotary							-
2. DI												<u> </u>
	<u> </u>			ļ							<u>.</u>	<u> </u>
	<u> </u>		<u> </u>	<u> </u>						<u> </u>	-	<u> </u>
4	DEPTH		BORE HOLE DIAM. (inches)		IST ANNULAR S VEL PACK SIZE				AMOUNT (cubic feet)		METHO PLACEN	
ANNULAR MATERIAL	FROM	то							(0000 1009		-	
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d A												
N N												
3.7												
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	OSE INTER	NAL USE			202	- ·			0 WELL RECORD	& LOG	(Version 06/3	0/17)
├	CATION 1	476	1) 33E 70	7 (PODNO	J. 		WELL TAG I		ے ۱	PAGE	1 OF 2
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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	
jo,						Y N	
👸						Y N	
Cic						Y N	
010						Y N	
GE						Y N	
DRC	ļ					Y N	
HY.						Y N	
4						Y N	
		-				Y N	
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) (Table 1)	022 E0 20				Y N	
		_		OF WATER-BEARING STRATA:		AL ESTIMATED L YIELD (gpm):	0.00
	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 1	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 ATE 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 DJT 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

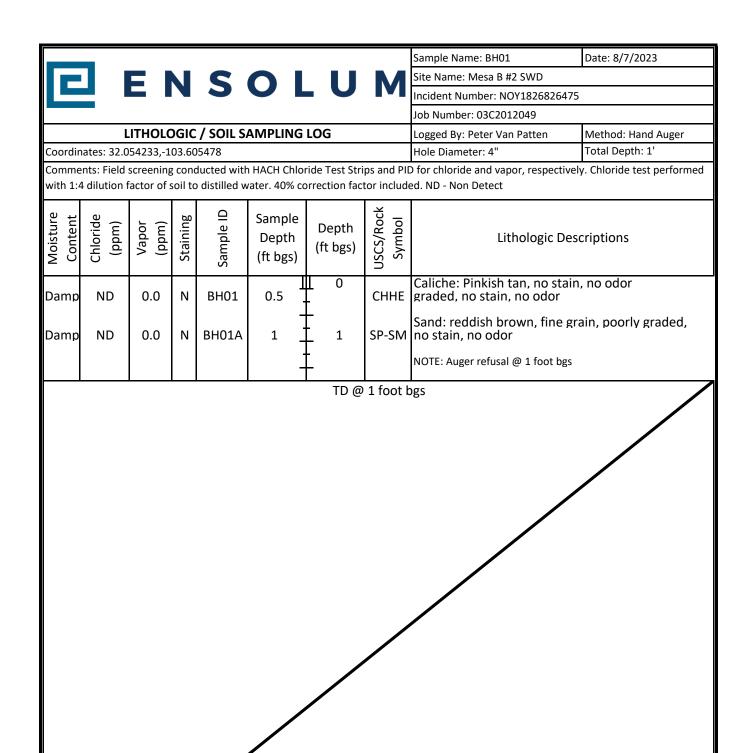
- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-07-29 8:40:54 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-07-29 8:41:43 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-07-29 8:43:29 PM GMT- IP address: 64.90.153,232
- 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





APPENDIX B

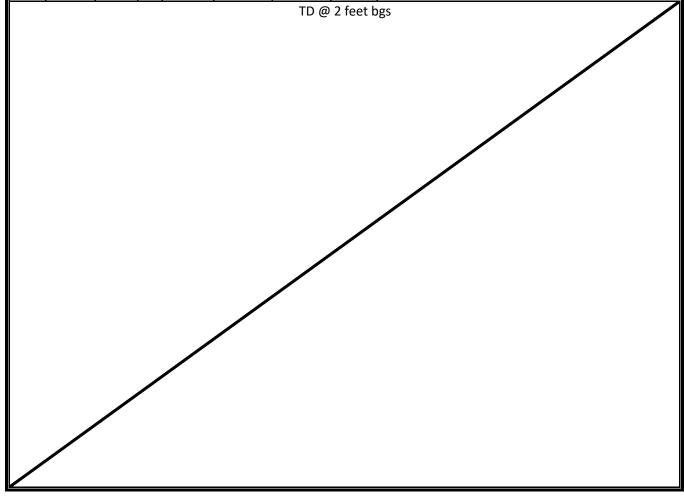
Lithologic Soil Sampling Logs

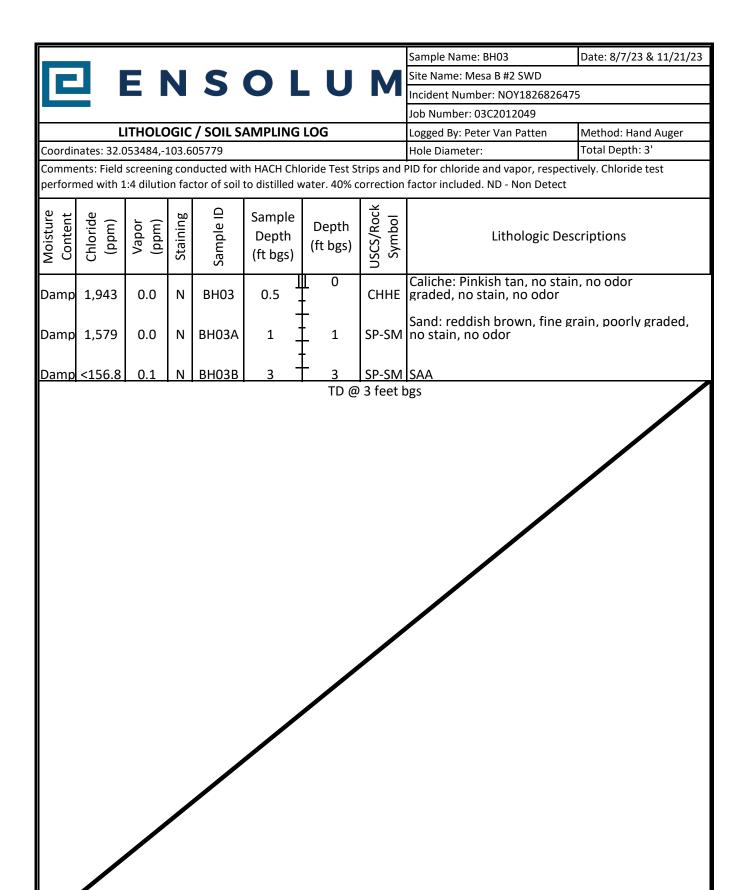


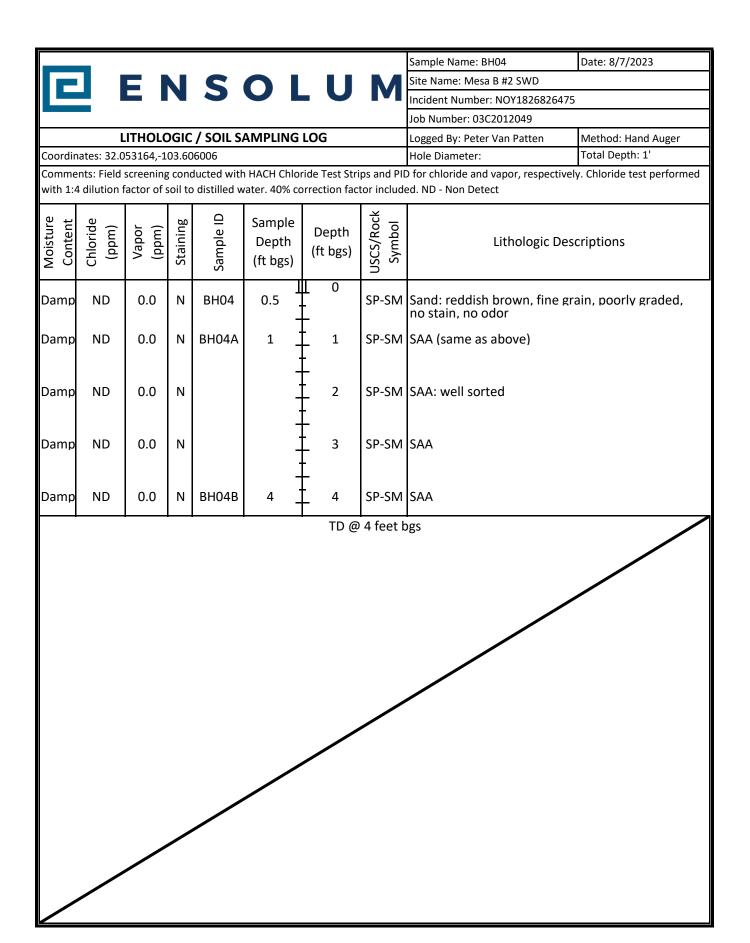


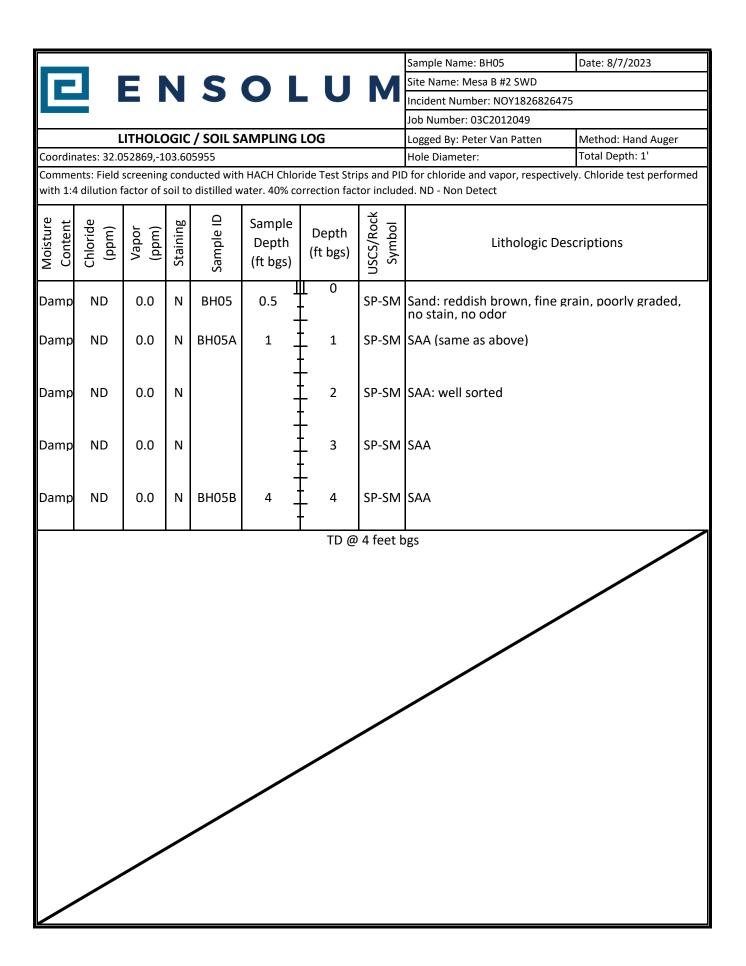
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Damp	845	0.0	Ν	BH02	0.5 <u> </u>	<u> </u>	СННЕ	Caliche: Pinkish tan, no stain, no odor graded, no stain, no odor
Damp	845	0.0	N	BH02A	1 _	1	SP-SM	Sand: reddish brown, fine grain, poorly graded, no stain, no odor
Damp	1,271	0.0	N		- - -	2		SAA (same as above) NOTE: Auger refusal @ 2 feet bgs











APPENDIX C

Photographic Log



Photographic Log

BTA Oil Producers, LLC Mesa B #2 SWD Incident Number NOY1826826475





Photograph: 1 Date: 09/2018

Description: Historical Release Documentation

Photograph: 2 Date: 8/7/2023

Description: BH02 delineation activities

View: Northwest





Photograph: 3 Date: 8/7/2023

Description: BH03 delineation activities

View: Northeast

Photograph: 4 Date: 8/7/2023

Description: BH05 delineation activities

View: North



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 14, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 14:05.

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Received: 08/07/2023 Sampling Date: 08/07/2023 Reported: 08/14/2023 Sampling Type: Soil

** (See Notes) Project Name: MESA B #2 SWD Sampling Condition: Project Number: 03C2012049 Sample Received By: Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 01 .5' (H234181-01)

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	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	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	64.0	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received: 08/07/2023 Sampling Date: 08/07/2023 Reported: 08/14/2023 Sampling Type: Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes) Sample Received By: Project Number: 03C2012049 Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 01 A 1' (H234181-02)

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	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	32.0	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 08/07/2023
 Sampling Date:
 08/07/2023

 Reported:
 08/14/2023
 Sampling Type:
 Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)
Project Number: 03C2012049 Sample Received By: Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 02 .5' (H234181-03)

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	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	608	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/07/2023 Sampling Date: 08/07/2023 Reported: 08/14/2023 Sampling Type: Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes) Sample Received By: Project Number: 03C2012049 Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 02 A 1' (H234181-04)

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	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	560	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/07/2023 Sampling Date: 08/07/2023 Reported: 08/14/2023 Sampling Type: Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes) Sample Received By: Project Number: 03C2012049 Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 03 .5' (H234181-05)

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	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 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	1440	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	78.0 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 08/07/2023
 Sampling Date:
 08/07/2023

 Reported:
 08/14/2023
 Sampling Type:
 Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)
Project Number: 03C2012049 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 03 A 1' (H234181-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	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	1170	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/07/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)

Project Number: Sample Received By: Tamara Oldaker 03C2012049

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 04 .5' (H234181-07)

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	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	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	32.0	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/07/2023 Sampling Date: 08/07/2023 Reported: 08/14/2023 Sampling Type: Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes) Sample Received By: Project Number: 03C2012049 Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 04 A 1' (H234181-08)

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	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 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	32.0	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	91.69	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 %	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

 Received:
 08/07/2023
 Sampling Date:
 08/07/2023

 Reported:
 08/14/2023
 Sampling Type:
 Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)
Project Number: 03C2012049 Sample Received By: Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 05 .5' (H234181-09)

BTEX 8021B	mg	mg/kg Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.4	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 08/07/2023
 Sampling Date:
 08/07/2023

 Reported:
 08/14/2023
 Sampling Type:
 Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)
Project Number: 03C2012049 Sample Received By: Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 05 A 1' (H234181-10)

BTEX 8021B	mg	mg/kg Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	ND	400	100	400	7.69	
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	08/11/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/11/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/11/2023	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/07/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil
Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)

Project Number: 03C2012049 Sample Received By: Tamara Oldaker Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: SS 01 .5' (H234181-11)

BTEX 8021B Analyte	mg/kg		Analyzed By: JH/						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	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	80.0	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/07/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)

Project Number: 03C2012049 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: BTA 32.0513169654,-103.6062430032

ma/ka

Sample ID: SS 02 .5' (H234181-12)

RTFY 8021R

BIEX 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	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 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	64.0	16.0	08/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 08/07/2023
 Sampling Date:
 08/07/2023

 Reported:
 08/14/2023
 Sampling Type:
 Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)
Project Number: 03C2012049 Sample Received By: Tamara Oldaker

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: SS 03 .5' (H234181-13)

BTEX 8021B	mg,	/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	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	32.0	16.0	08/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	63.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.3	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 08/07/2023
 Sampling Date:
 08/07/2023

 Reported:
 08/14/2023
 Sampling Type:
 Soil

Project Name: MESA B #2 SWD Sampling Condition: ** (See Notes)
Project Number: 03C2012049 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: BTA 32.0513169654,-103.6062430032

ma/ka

Sample ID: SS 04 .5' (H234181-14)

RTFY 8021R

BIEX 8021B	mg	/ Kg	Analyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	08/09/2023	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	08/09/2023	ND	173	86.7	200	0.0963	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	182	90.8	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: EL Solum	v ()(BILL TO		AN	ANALYSIS RECLIEST
Project Manager: Hadlic Green	Green	P.O. #:			- 1
	N. Marienfeld S+ #400	Company: BTA	0.1	_	
city: Midland	State: TX Zip: 7970	20	paird		
Phone #: 432-557-8895	95 Fax#:	Address: 104 5, Pews 5+	7 20		
Project #: 03C2017019	Project Owner:	city: Midland			
Project Name: Mexa B # Z	4	State: T × Zip: 7970	9701	la'	
Project Location: 32.05/3/69654	2 800842909 801-14596918	Phone #: 432-312-2203	2022		
Sampler Name: Peter Van	Pate	Fax#:	(,	
FOR LAB USE ONLY	$\overline{}$	PRESERV.	SAMPLING	es	
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EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim	bility and client's exclusive remedy for any claim arising whether based in co	arising whether based in contract or tort, shall be limited to the amount paid by the client for the	aid by the client for the	4	
alyses. All claims including those for negligence and any other vice. In no event shall Cardinal be liable for incidental or cons litates or Fu_vescers arising out of or related to the performance	r cause whatsoever shall be deemed equental damages, including without e of services hereunder by Cardinal.	ing and received by Cardinal within 30 days affitions, loss of use, or loss of profits incurred by claim. "Seed upon any of the above stated or	ter completion of the applicable client, its subsidiaries,		
quished By:	Date: 7.23 Received By:		Verbal Result: □ All Results are emails	Yes Yes No	Add'l Phone 🛠
elinquished By:	Date: Received By:	CHIEROLAN.	ngreen@c	hgreen@enschun.com	1
	Time:		cea	Well / Sup	y request) will
Delivered By: (Circle One)	and the	ç.	Turnaround Time:	Standard 19	Bacteria (only) Sample Condition
ampler - UPS - Bus - Other:	Corrected Temp. °C Cool Intact	Intact (Initials)	Thermometer ID #140		Cool Intact Observed Temp. °C ☐ Yes ☐ Yes
FORM-000 K 3.4 07/11/23		4 4	Conscion actor of C		☐ No ☐ No Corrected Temp, °C

Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

(0,0) 000 20	120 1 20 (010) 000-2410			
Company Name: Englun	1, 660	BILL TO	ANALYSIS REQUEST	_
Project Manager: Hodic Green		P.O. #:	- 1	
	N. Marieweld St #400	Company: BTA Oi		_
city: Midland	State: TX Zip: 879701	Attn: Kelton Brains		
Phone #: 432-557-8895	Fax #:	Address: 1045, 12005 St	7	
Project #: 03C2017049	ect Owner:	city: Midland		
Project Name: Mesa 8#2 5000		State: TX Zip: 79701	2	
Project Location: 32,0513	25008/2909/201-	Phone #: 432-312-2203	703	
Sampler Name: Reter Vou		Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	Ц	_
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EASE NOTE: Liability and Damages Cardina's liabi	It and client's symbician compute for any mistro oxides whether have discovered.			
nalyses. All claims including those for negligence and any prvice. In no event shall Cardinal be liable for incidental or filiates or successors arising out of or related to the perfor	other cause whatsoever shall be deemed waived unless m consequental damages, including without limitation, busine mance of services here, wher by Cardinal, regardless of why	ade in writing and received by Cardinal within 30 days after completion of the ss interruptions, loss of use, or loss of profits incurred by client, its subsidiaria either such claim is based upon any of the above stated reasons or otherwise	pplica	
The for the first of the first			All Results are emailed. Pinase provide Email address:	
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FORM-000 K 3:4 07/11/23	1 100			_

Corrected Temp. °C



August 22, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/16/23 12:30.

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

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

Received: 08/16/2023 Reported: 08/22/2023

Project Name: MESA B #2 SWD
Project Number: 03C2012049

Project Location: BTA 32.0513169654,-103.6062430032

Sampling Date: 08/16/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 04 B 4' (H234427-01)

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	08/17/2023	ND	2.03	102	2.00	3.35	
Toluene*	<0.050	0.050	08/17/2023	ND	1.92	95.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	2.00	99.8	2.00	2.43	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.92	98.7	6.00	2.77	
Total BTEX	<0.300	0.300	08/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	08/17/2023	ND	416	104	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	08/17/2023	ND	197	98.3	200	5.17	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	185	92.4	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					
Surrogate: 1-Chlorooctane	72.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/16/2023 Sampling Date: 08/16/2023

Reported: 08/22/2023 Sampling Type: Soil

Project Name: MESA B #2 SWD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C2012049

Project Location: BTA 32.0513169654,-103.6062430032

Sample ID: BH 05 B 4' (H234427-02)

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	08/17/2023	ND	2.03	102	2.00	3.35	
Toluene*	<0.050	0.050	08/17/2023	ND	1.92	95.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	2.00	99.8	2.00	2.43	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.92	98.7	6.00	2.77	
Total BTEX	<0.300	0.300	08/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	32.0	16.0	08/17/2023	ND	416	104	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	08/17/2023	ND	197	98.3	200	5.17	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	185	92.4	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					
Surrogate: 1-Chlorooctane	69.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.9	% 49.1-14	8						

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 whatsoever 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, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of 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.

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

The Encoding ILC State: TX Zip: 79701 Atm: Kethon Bayes Fax 8: Address: TV Zip: 79701 Atm: Kethon Bayes Fax 8: Address: TV Zip: 79701 Atm: Kethon Bayes Fax 8: Address: TV Zip: 79701 Atm: Kethon Bayes Fax 8: Address: TV Zip: 79701 Atm: Kethon Bayes Fax 8: Fax 8: Address: TV Zip: 79701 Atm: Kethon Bayes Fax 8: Fax		(010) 393-2320 (010)	W (010) W	ľ	l	ı	l	l	1	ı	ı	ı	1			١	١	١				1	i	
98°: HAMIL GYLL'N State: TX ZIP: 79701 Attr: Ketton Basinary 17557-9995 Fax#: Address: I/H S/RLCO 17557-9995 Fax#: Address: I/H S/RLCO 18.: MAESH 6#7. SWD Project Owner: Emblury 19.: MATSH 6#7. SWD Sample L.D. Sample Depth (C) RS (feet) RA RASINER Sample L.D. Sample Depth (C) RS (feet) RA RASINER SAMPLING (feet) RASINER RASINER SAMPLING (feet) RASINER RASINER RASINER SAMPLING (feet) RASINER RASINER SAMPLING (feet) RASINER RASINER SAMPLING (feet) RASINER RASINER RASINER SAMPLING (feet) RASINER RASINER SAMPLING (feet) RASINER RANARRAS RANA	Company Name:	Ensolum, LLC							L				F	T 10		-	1	-	Ą	Tro		Sec.	<u>=</u>	-
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SC2012049 Project Owner: Endblum City: MAIDLAND **MESH 6H7 SWD **State: TY Zip: 74701 **State: Ty Z	Phone #: 437-	557-8995	Fax #:							Ado	res	S	0	HSRU	٤									
Sample I.D. Sample Depth (Geet) MATRIX PRESERV SAMPLING PARE: PARE:	Project #: 05C	2012049	Project Owner:	Č4	S	2	3			City	_	2	2	land				_		_			_	
Bion: Hadillu Gyvum Sample I.D. Sample Depth GCER (feet) BANGERY SAMPLING O DESTRICT O DESTRIC	Project Name:	15 249 WEAV	20							Sta		7	N	Zip: 797	0			10						
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It:	PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Car	Damages, Cardinal's liability and on those for negligence and any other dinal be liable for incidental or constitutions.	lient's exclusive remedy for an r cause whatsoever shall be d requents! damages, including v	claim a semed v	irising valved imitatio	wheth unless on, bus	made mess in	d in co	ntract ng and dons, h	or tort receives of	shall red by use, o	be lim Cardi	nal with	the amount paid by thin 30 days after op fits incurred by clien	the client for the mpletion of the t, its subsidiaries	e applicable s,	. [ŀ	ł	ı			
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Observed Temp. C 38 Sample Condition CHECKED BY: Turnaround Time: Standard Me Bacteria (only) S Cool Intact (Initials) Thermometer ID #173 #1/41	Relinquished By		Date: Time:	Rec	eive	d B	Ý.			1			1	71	REMARKS									
The state of the s	Delivered By: (Cir		Observed Temp. °C	20		Cos	M D	S Inta	nditt	s on		(~ £	In: CK		urnaround	Time:		Standar			teria (onl Intact 'es Ye	ly) Sam Ob	ple Condi served Te	emp. °C



November 20, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA B #2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/16/23 9:13.

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

Cardinal Laboratories is 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/16/2023 Reported: 11/20/2023

Project Name: MESA B #2 SWD
Project Number: 03C2012049

Project Location: 32.05356, -103.60563

Sampling Date: 11/10/2023

Sampling Type: Soil

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

Sample ID: SS 05 0.5 (H236265-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTEX	<0.300	0.300	11/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	224	16.0	11/17/2023	ND	432	108	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

Applyand By 14/

Cardinal Laboratories *=Accredited Analyte

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Mr. Songh

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



11/10/2023

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/16/2023 Sampling Date:

Reported: 11/20/2023 Sampling Type: Soil

Project Name: MESA B #2 SWD Sampling Condition: Cool & Intact
Project Number: 03C2012049 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: 32.05356, -103.60563

mg/kg

Sample ID: SS 06 0.5 (H236265-02)

BTEX 8021B

	9,	9	7	1 1 ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTEX	<0.300	0.300	11/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	240	16.0	11/17/2023	ND	432	108	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					
Surrogate: 1-Chlorooctane	77.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Mile Sough

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



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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MMc Songh

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

CARDINAL Laboratories 101 East Marland, Hobbs, NM 8824

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

Corrected Temp, °C	changes to celey.keene@cardinallabsnm.com
cal	ser-UPS - Bus - Other: Contract Towns. C Cool Infact Tract Ves Townsmount Time: Cool Infact The Ves Townsmount Time: Cool Infact Cool Infac
on & ensolum com	3 Received By:
	NOTE: Liability and Damages. Cardinals liability and clients excitative releasely for any claim artising whether based in contact of lost shall be liabiled to the amount paid by the client to the consequent and any other cause whetherever shall be desented whether these nade in writing and revoked by Configuration to the amount paid by the client for the consequential demagner, including whitever feeling and revoked by Configuration that when the shall shall be included by the client for the applicable of the applicable of services interested by Configuration, business interrupture, loss of true, or loss of profits incurred by client to actualisation. Data:
	Sample I.D. (feet) O.S. (G)RAB OR (C)OM CONTAINERS GROUNDWATER WASTEWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: II-1073 1336 Chloride
	State: NM 21p: 88220 Alter: Kelton Review -384-7365 Fax #: Address: 104 5, Rus 54 -2017 049 Project Owner: City: Midland -384-7365 Fax #: Address: 104 5, Rus 54 -384-7365 Rus #: City: Midland -384-7365 State: Kelton Review -384-7365 Address: 104 5, Rus 54 -384-7365 Rus #: City: Midland -384-7365 State: Kelton Review -384-7365 State: Kelton Review -384-7365 Address: 104 5, Rus 54 -384-7365 Rus #: City: Midland -
SIS REQUEST	Once Parks Hay Company
	01 TINE

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



November 27, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #2 SWD/NOY 1826826475

Enclosed are the results of analyses for samples received by the laboratory on 11/21/23 13:50.

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)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

11/21/2023 Received: 11/21/2023 Sampling Date:

Reported: 11/27/2023 Sampling Type: Soil

Project Name: MESA B #2 SWD/NOY 1826826475 Sampling Condition: Cool & Intact Project Number: 03C2012049 Sample Received By: Dionica Hinojos

Project Location: BTA - LEA COUNTY, NM

Sample ID: BH 03 B 3' (H236341-01)

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	11/22/2023	ND	2.00	100	2.00	2.17	
Toluene*	<0.050	0.050	11/22/2023	ND	2.10	105	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/22/2023	ND	2.11	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	11/22/2023	ND	6.35	106	6.00	2.67	
Total BTEX	<0.300	0.300	11/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2023	ND	416	104	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	11/22/2023	ND	216	108	200	3.21	
DRO >C10-C28*	<10.0	10.0	11/22/2023	ND	203	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	11/22/2023	ND					
Surrogate: 1-Chlorooctane	73.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(014) 000 = 110		
company Name: Ensolum, LLC		BILL TO	ANALYSIS REQUEST
Project Manager: Hadlie Green		P.O. #:	- 1
Address: 601 N Marienfeld Street, Suite 400	Suite 400	Company: BTA Oil Producers	3
City: Midland	State: TX Zip: 79701	Attn: Kelton Beaird	
Phone #: 432-557-8895	Fax #:	Address: 104 S Pecos St	
Project #: 03C2012049	Project Owner: BTA Oil Producers	City: Midland	
Project Name: Mesa B #2 SWD/NOY1826826475	Y1826826475	State: Tx Zip: 79701	
Project Location: Led County	WW 1	#: 575	0
Sampler Name: NKD		Fax#:	5
FOR LAB USE ONLY	MATRIX	PRESERY SAMPLING	90/
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH 8 STEX 807
1 BH03B	×	X 11/2/13 11	5
NAN			
	100	1	
		/	
		12	
		23	/
PLEASE NOTE: Libblily and Damages. Cardinal's liability and analyses. All claims including those for negligence and any oth service. In no event shall Cardinal be liable for incidental or con- affiliative or successors arising out of or related to the performan	PLEASE NOTE: Liability and Danages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the amalyses. All claims including those for negligence and any other cause whatsoever stalls be deemed waked unless made in witing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for includental or consequental diamages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliative or successors arising out of or related to the performance of services herounder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or offenyles.	t or tort, shall be limited to the amount paid by the or direceived by Cardinal within 30 days after complet loss of use, or loss of profits incurred by client, its s is based upon any of the above stated reasons or	ent for the on of the applicable buildinities.
Mond bend	Time: 3:50 Received By:		Verbal Result:
Relinquished By:	Date: Received By:	REM	REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C 1.70C Sample Condition	n CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C +1/40 Yes Yes	A	[



APPENDIX E

NMOCD Notifications

From: Wells, Shelly, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD; Hamlet, Robert, EMNRD; Hall, Brittany, EMNRD; Harimon,

Jocelyn, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 08/07/2023

Date: Thursday, August 3, 2023 2:47:10 PM

Attachments: image001.png image002.png

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Hadlie,

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

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: Thursday, August 3, 2023 1:36 PM

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

Cc: Kelton Beaird < KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 08/07/2023

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

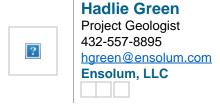
All,

BTA anticipates collecting confirmation samples at the following locations the week of August 7, 2023.

- Mesa B #2 SWD / NOY1826826475
 - Sampling Date: 8/7-8/2023 @ 9:00 AM MST

- Mesa #2H Tank Battery / NRM2026945362
 - Sampling Date: 8/8/2023 @ 9:00 AM MST
- Vaca Draw 9418 JV-P 001 / nCH1835540209
 - Sampling Date: 8/10-11/2023 @ 9:00 AM MST
- Gem 4, 5, 7, 10 Battery, 8705 JV-P / NCH1903263128
 - Sampling Date: 8/10-11/2023 @ 9:00 AM MST
- Mesa 8105 JVP #006H / nOY1814228433
 - Sampling Date: 8/11/2023 @ 9:00 AM MST

Thank you,



From: Wells, Shelly, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)

Date: Wednesday, November 15, 2023 12:56:07 PM

Attachments: image001.png

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file. If less than 2 days' notice continues to be given, this variance will not be approved.

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: Wednesday, November 15, 2023 1:47 PM

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

Subject: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number

NOY1826826475)

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 Friday, November 17, 2023.

Mesa B #2 SWD / NOY1826826475

- Sampling Date: 11/17/2023 @ 9:00 AM MST
- GPS: 32.05356, -103.60563

Thank you,



Hadlie Green

Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Wells, Shelly, EMNRD

To: Hadlie Green

Cc: <u>Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD</u>

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)

Date: Friday, November 17, 2023 9:34:21 AM

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

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Hadlie,

Thank you for providing the 2 days business notice of the update. No variance is needed. 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: Friday, November 17, 2023 7:59 AM

To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)

Good morning Shelly,

Site activities at the Mesa B #2 SWD have been delayed. With your approval, BTA requests a confirmation sampling date variance of Tuesday, November 21, 2023.

Mesa B #2 SWD / NOY1826826475

Sampling Date: 11/17/2023 @ 9:00 AM MST

• GPS: 32.05356, -103.60563

Thank you,



Hadlie Green

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

From: Wells, Shelly, EMNRD < Shelly. Wells@emnrd.nm.gov>

Sent: Wednesday, November 15, 2023 2:56 PM **To:** Hadlie Green < hero-mensolum.com >

Cc: Bratcher, Michael, EMNRD < <u>mike.bratcher@emnrd.nm.gov</u>>; Maxwell, Ashley, EMNRD

<<u>Ashley.Maxwell@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number

NOY1826826475)

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file. If less than 2 days' notice continues to be given, this variance will not be approved.

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: Wednesday, November 15, 2023 1:47 PM

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

Subject: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)

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 Friday, November 17, 2023.

- Mesa B #2 SWD / NOY1826826475
 - Sampling Date: 11/17/2023 @ 9:00 AM MST
 - GPS: 32.05356, -103.60563

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	NOY1826826475
District RP	1RP-5202
Facility ID	
Application ID	pOY1826825549

Release Notification

Responsible Party

Contact Telephone 432-701-5808
Incident # NOY1826826475

Location of Release Source

Latitude: 32.053884 Longitude: -103.605645

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa B #2 SWD	Site Type: SWD Battery
Date Release Discovered: 9/11/18	API# (if applicable): 30-025-42462

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

Surface Owner: State Federal Tribal Private (Name: Charlotte W. Schuman Living Trust of October 5, 1988 Karlyn S. Doyle and Charlotte W. Schuman, Co-Trustees, 2121 Yorktown, #305, Tulsa, OK 74114, 918-747-7703)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Volume Recovered (bbls) Crude Oil Volume Released (bbls) Volume Recovered (bbls): 30 Produced Water Volume Released (bbls): Area of spill on pad (9,143 ft²)* Average depth of spill (0.25 ft) * Soil porosity (0.15) + Length of spill off pad (302 ft) * Average width of spill off pad (0.6 ft) * Depth of spill off pad (1 ft) * Soil porosity $(0.2) = 373.0624 \text{ ft}^3 = 66.4 \text{ bbl}$ Is the concentration of dissolved chloride in the produced water >10,000 Yes □ No Volume Recovered (bbls) Condensate Volume Released (bbls) Volume Recovered (Mcf) ■ Natural Gas Volume Released (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered Cause of Release: Internal corrosion in pump vibration dampener caused salt water to spray produced water to spray onto the well pad. Some flowed off-site about 300 feet.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NOY1826826475
District RP	1RP-5202
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Over 25 bbl		
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No			
Initial Response			
The responsible	e 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.		
☐ The impacted area ha	s been secured to protect human health and the environment.		
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.		
All free liquids and re	ecoverable materials have been removed and managed appropriately.		
possibility that human hea pump was shut down and			
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: John Aller	Title: Environmental Manager		
Signature:	Date: 10/1/18		
email: jallen@btaoi	MATERIAL PS MOTOR PRODUCT SAGRAGUES		
OCD Only			
Received by:	Date:		

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	NOY1826826475
District RP	1RP-5202
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?	51-100 (ft bgs)	
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 not 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 soi contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within 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: 12/8/2023 11:05:02 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

73	/ 7		
Page	\mathbf{n}_{1}	OI	' / D
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Incident ID	NOY1826826475
District RP	1RP-5202
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		
Signature:	Manager Date:		
email:KBeaird@btaoil.com	11/30/2023		
	Telephone: 432-312-2203		
OCD Only			
Received by:	Date:		

Page 68 of 76

Incident ID	NOY1826826475
District RP	1RP-5202
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		
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptant should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or results.	mplete to the best of my knowledge and understand that pursuant to OCD rules ertain release notifications and perform corrective actions for releases which he of a C-141 report by the OCD does not relieve the operator of liability different contamination that pose a threat to groundwater, surface water, and a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially be conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete. Title: _Environmental Manager Date:11/30/2023 Telephone:432-312-2203	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	

<u>District I</u> 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**

QUESTIONS

Action 292635

QUESTIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1826826475
Incident Name	NOY1826826475 MESA B#2 SWD @ 30-025-42462
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-42462] MESA B SWD 8115 JV-P #002

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MESA B#2 SWD
Date Release Discovered	09/11/2018
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pump Produced Water Released: 60 BBL Recovered: 30 BBL Lost: 30 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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**

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

QUESTIONS, Page 2

Action 292635

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 0, 14m 07 000	
QUESTIONS (continued)		
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297 Action Number: 292635 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of led or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	

Name: BTA ENV

Title: Environmental Manager

Email: kbeaird@btaoil.com Date: 12/08/2023

Released to Imaging: 12/15/2023 8:11:46 AM

I hereby agree and sign off to the above statement

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**

QUESTIONS, Page 3

Action 292635

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

d to the appropriate district office no later than 90 days after the release discovery date.		
Yes		
ation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Yes		
No		
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
1440		
0		
0		
0		
0		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
07/18/2023		
11/21/2023		
11/21/2023		
15618		
1220		
0		
0		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 292635

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	Yes	
Other Non-listed Remedial Process. Please specify	Delineation completed. No impacts identified. All samples meet Closure Criteria.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: BTA ENV

Title: Environmental Manager Email: kbeaird@btaoil.com

Date: 12/08/2023

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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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**

QUESTIONS, Page 5

Action 292635

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. Requesting a deferral of the remediation closure due date with the approval of this No submission

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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

QUESTIONS, Page 6

Action 292635

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	292654
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/17/2023
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	11700

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	0			
What was the total volume (cubic yards) remediated	0			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	0			
What was the total volume (in cubic yards) reclaimed	0			
Summarize any additional remediation activities not included by answers (above)	Delineation only. No reclamation required at this time.			

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: BTA ENV
Title: Environmental Manager
Email: kbeaird@btaoil.com
Date: 12/08/2023

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QUESTIONS, Page 7

Action 292635

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 292635

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation Closure approved. All areas not reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as practical. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete"	12/15/2023