# E N S O L U M

September 18, 2023

**New Mexico Oil Conservation Division** New Mexico Energy, Minerals, and Natural Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Mesa 8105 JV-P 013H/18 Compressor Incident Numbers NCH1835547953, NAB1906552791, and NAB1906551740 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document delineation and soil sampling activities performed at the Mesa 8105 JV-P 013H/18 Compressor (Site), in accordance with an approved *Revised Remediation Work Plan (Revised Work Plan)*, submitted June 8, 2023. The *Revised Work Plan* detailed Site assessment activities and delineation of the release. Based on delineation activities completed and laboratory analytical results from the soil sampling events in accordance with the Revised *Work Plan*, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Numbers NCH1835547953, NAB1906552791, and NAB1906551740.

Details regarding the release, Site characterization, and proposed remediation activities can be referenced in the original *Work Plan* submitted on June 8, 2023. The *Revised Work Plan* is included as Appendix A. On June 23, 2023, the New Mexico Oil Conservation Division (NMOCD) approved the *Work Plan* with the following conditions:

This Workplan/Remediation proposal is approved with the following conditions: • All (floor/sidewall) closure samples on pad will need to meet closure criteria standards for depth to water of 51'-100' in Table 1 of the Spill Rule. • Please have soil samples analyzed for all components in Table 1 of the spill rule. The link to the current spill rule as well as the Procedures for Implementation are provided for your convenience. • Please note that, when the well or facility is plugged or abandoned, the final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations. The OCD wants to clarify that the entire release area will not be deferred, only the sample points that are around production equipment such as production tanks, wellheads, and pipelines. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water.

## BACKGROUND

The Site is located in Unit P, Section 1, Township 26 South, Range 32 East, in Lea County, New Mexico (32.06584°, -103.62410°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

BTA Oil Producers, LLC Mesa 8105 JV-P 013H Closure Request

On November 24, 2018, a malfunction on a compressor caused the slop tank to overflow. Approximately 20 barrels (bbls) of produced water and 10 bbls of condensate were released. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 5 bbls of produced water and 5 bbls of condensate were recovered. BTA reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on November 26, 2018. The release was assigned Remediation Permit (RP) Number 2RP-5289 and Incident Number NCH1835547953.

On February 8, 2019, an equipment failure on a compressor caused the slop tank to overflow. Approximately 18 bbls of crude oil were released. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 18 bbls of crude oil were recovered. BTA reported the release to the NMOCD on a Form C-141 on February 22, 2019. The release was assigned RP Number 1RP-5383 and Incident Number NAB1906552791.

On February 9, 2019, the same equipment failure occurred on the compressor and caused the slop tank to overflow again. Approximately 18 bbls of crude oil were released. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 18 bbls of crude oil were recovered. BTA reported the release to the NMOCD on a Form C-141 on February 22, 2019. The release was assigned RP Number 1RP-5383 and Incident Number NAB1906551740.

On June 6, 2023, Ensolum proposed further delineation activities via hand auger in the *Revised Work Plan*, with the intention of confirming removal of impacted soil in the top 2 feet and field screening at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuantTab<sup>®</sup> test strips. The response from the NMOCD, on June 23, 2023, approved the *Revised Work Plan* with conditions that the closure samples must meet Closure Criteria for depth to water of 51 feet to 100 feet below ground surface (bgs) in Table I of the Spill Rule and all samples must be analyzed for all components in Table I of the Spill Rule.

As documented in the approved *Revised Work Plan*, 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

## DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

Between August 4, 2023 and September 13, 2023, Ensolum personnel were at the Site to oversee delineation activities. Ten boreholes (BH01 through BH10) were advanced to 1-foot bgs. Following auger refusal at a depth of 1-foot bgs, Ensolum personnel returned to the Site with a mini track-mounted backhoe to continue delineation in all 10 boreholes to a maximum depth of 4 feet bgs. Samples were field screened as described above. The delineation soil sample locations are depicted on Figure 1. A photographic log can be found in Appendix B. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in 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



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analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for delineation soil samples BH01 through BH10, collected within and around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed the absence of impacted soil within and around the inferred release area. 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 as described in the approved *Revised Work Plan*. Laboratory analytical results for the delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. Based on laboratory analytical results, no impacted soil was identified and no further remediation appears required.

BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Numbers NCH1835547953, NAB1906552791, and NAB1906551740. Notifications submitted to the NMOCD are included in Appendix E and the Final Form C-141s are included in Appendix F.

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

Sincerely,

Ensolum, LLC

Meredith Roberts Staff Geologist

Daniel R. Moir, PG Senior Managing Geologist

cc: Kelton Beaird, BTA Bureau of Land Management

Appendices:

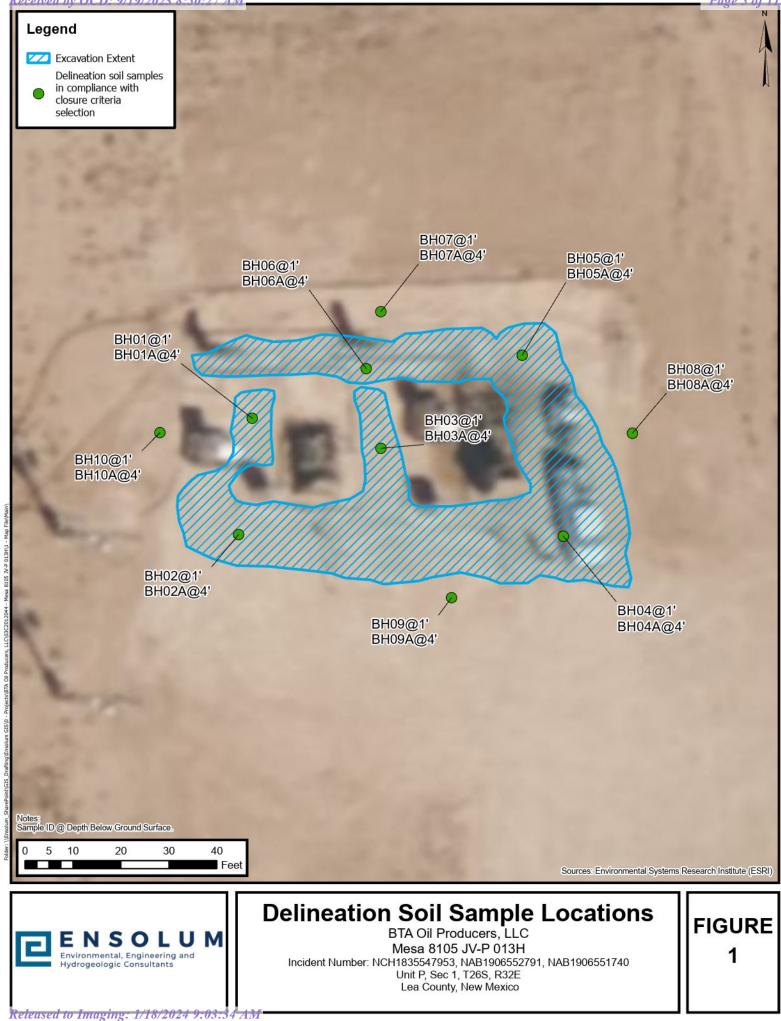
- Figure 1 Delineation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Appendix A Revised Remediation Work Plan
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications
- Appendix F Final C-141s





FIGURES

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# TABLES

# **ENSOLUM**

				Me BTA	TABLE 1 LE ANALYTIC sa 8105 JV-P ( Oil Producers County, New N	013H 5, LLC				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
		I		Deli	neation Soil Sa	nples	1	I	I	
BH01	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
BH01A	09/13/2023	4	<0.050	<0.300	<10.0	<10.0	13.7	<10.0	13.7	240
BH02	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
BH02A	09/13/2023	4	<0.050	<0.300	<10.0	512	148	512	660	80.0
BH03	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH03A	09/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04	08/04/2023	1	<0.050	<0.300	<10.0	135	52.6	135	188	176
BH04A	09/13/2023	4	<0.050	<0.300	10.5	756	153	767	920	128
BH05	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	35.9	<10.0	35.9	816
BH05A	09/13/2023	4	<0.050	<0.300	<10.0	18.6	18.2	18.6	36.8	48.0
BH06	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
BH06A	09/13/2023	4	<0.050	<0.300	<10.0	389	81.5	389	471	320
BH07	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH07A	09/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH08	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
BH08A	09/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH09	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH09A	09/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH10	08/04/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH10A	09/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

GRO: Gasoline Range Organics

TPH: Total Petroleum Hydrocarbon

DRO: Diesel Range Organics

ORO: Oil Range Organics

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.



# APPENDIX A

Original Revised Remediation Work Plan

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June 6, 2023

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

## Re: Revised Remediation Work Plan Mesa 8105 JV-P 013H Incident Numbers NCH1835547953, NAB1906552791, and NAB1906551740 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared the following *Revised Remediation Work Plan* (*Revised Work Plan*) as a follow up to the original *Remediation Work Plan* (*Work Plan*) dated September 25, 2019. This *Revised Work Plan* proposes to complete additional delineation activities at the Mesa 8105 JV-P 013H (Site) in response to the denial of the original *Work Plan* by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD indicated that the the impacted soil left in place had not been properly delineated. The following *Revised Work Plan* proposes full lateral and vertical delineation of the impacted soil left in place.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 1, Township 26 South, Range 32 East, in Lea County, New Mexico (32.06584°, -103.62410°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 24, 2018, a malfunction on a compressor caused the slop tank to overflow. Approximately 20 barrels (bbls) of produced water and 10 bbls of condensate were released. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 5 bbls of produced water and 5 bbls of condensate were recovered. BTA reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on November 26, 2018. The release was assigned Remediation Permit Number (RP) Number 2RP-5289 and Incident Number NCH1835547953.

On February 8, 2019, an equipment failure on a compressor caused the slop tank to overflow. Approximately 18 bbls of crude oil were released. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 18 bbls of crude oil were recovered. BTA reported the release to the NMOCD on a Form C-141 on February 22, 2019. The release was assigned RP Number 2RP-5383 and Incident Number NAB1906552791.

On February 9, 2019, the same equipment failure occurred on the compressor and caused the slop tank to overflow again. Approximately 18 bbls of crude oil were released. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 18 bbls of crude oil were recovered. BTA reported

BTA Oil Producers, LLC Revised Remediation Work Plan Mesa 8105 JV-P 013H

the release to the NMOCD on a Form C-141 on February 22, 2019. The release was assigned RP Number 2RP-5383 and Incident Number NAB1906551740.

## 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, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on 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 greater than 55 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04485, located approximately 0.5 miles southwest of the Site. The well was drilled to a depth of 55 feet during October 2020, and no groundwater was encountered. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 380 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, 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

## BACKGROUND

Between November 2018 and August 2019, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the three slop tank overflow releases into an area of active production equipment. Impacted soil was excavated to a depth of 2 feet bgs around the active compressors and production equipment, and beneath the surface lines. A total of approximately 128 cubic yards of impacted soil were exavated. However, impacted soil was left in place immediately adjacent to and beneath the active compressors and production equipment where remediation would cause a major facility deconstruction. Impacted soil within the release extent was vertically delineated to below the most stringent Table I Closure Criteria. Delineation sample points SP1 and SP2 confirmed that impacted soil did not extend deeper than 4 feet bgs. The excavation extent and delineation soil sample locations are presented on the attached Figure 2. The laboratory analytical results are summarized in the attached Table 1. There was limited area to continue deeper excavation due to two compressors, two vertical separator vessels, hard-piped gas meter runs, high-pressure gas lines, and buried electrical lines within the release area. A *Work Plan* was submitted to NMOCD on September 25, 2019, proposing to defer the impacted soil left in place and install a 20 mil impermeable liner in the base



BTA Oil Producers, LLC Revised Remediation Work Plan Mesa 8105 JV-P 013H

of the 2-foot excavation prior to backfilling. Additional details can be referenced in the original *Work Plan*, submitted to NMOCD on September 25, 2019.

On December 11, 2019, NMOCD denied the *Work Plan* for Incident Numbers NCH1835547953, NAB1906552791, and NAB1906551740 for the following reasons:

• The OCD can't approve this remediation plan because there aren't enough soil sample points in the spill area. Looking at the analytical table, SP1 and SP2 have the first clean sample points for TPH at 4' bgs and have only been excavated to 1' bgs. The areas that prevent further excavation because of the compressors, installed production equipment, lines, and rock refusal will need to be delineated with lab tested soil samples to quantify the amount of contaminated soil left in place. These samples will need to be included in a formal deferral request, once the rest of the excavation is delineated and excavated. The entire spill will not be deferred, please use a hydrovac to remove contaminated soil in places that can be excavated.

## PROPOSED REMEDIATION WORKPLAN

Upon review of the September 25, 2019, *Work Plan,* it was noted that impacted soil was excavated to a depth of 2 feet bgs not 1-foot bgs as described in the denial language. Additionally, upon review of the 2018/2019 site photographs, it appears that impacted soil was excavated as close as possible to the active compressors and production equipment, including areas beneath surface lines. Additional excavation does not appear to be safely practical. A photographic log of the 2018/2019 excavation activities is provided in Appendix B along with photos from May 2023 showing the backfilled excavation area. BTA agrees that the delineation activities completed in 2019 were not adequate for deferral of the impacted soil left in place. As such, BTA requests approval to complete the following additional remediation activities:

- Full lateral and vertical delineation the impacted soil that was left in-place.
  - Boreholes will be advanced via hand auger outside of the historical release/excavation extent to determine the lateral extent of the impacted soil that was left in place and confirm the horizontal extent of the surface release.
  - Boreholes will be advanced via hand auger within the historical release/excavation extent to confirm removal of the top two feet of impacted soil, determine if a liner was installed prior to backfilling the excavation, and confirm the vertical extent of the impacted soil that was left in place.
  - Soil from the boreholes will be 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 will be logged on lithologic/soil sampling logs. Two delineation samples from each borehole will be submitted for laboratory analysis; the sample with the highest field screening result and the sample from the final borehole depth.
    - Final depth of the boreholes will be determined by field screening results indicating compliance with the Site Closure Criteria. In the absence of elevated field screening results, the boreholes will be advanced to a depth of 4 feet bgs.
    - If a liner is encountered in the boreholes, the liner will be patched/repaired following vertical delineation activities.
  - The proposed borehole locations are shown on the attached Figure 3. Borehole locations may need to be adjusted slightly during field activities based on the location of underground utilities.



BTA Oil Producers, LLC Revised Remediation Work Plan Mesa 8105 JV-P 013H

- The delineation samples will be analyzed for BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.
- Upon completion of the lateral and vertical delineation activities and receipt of the laboratory analytical results, BTA will prepare a *Deferral Request* quantifying the volume of impacted soil left in place and requesting deferral until major well pad construction/alteration or final plugging and abandonment.

BTA will complete the delineation activities within 90 days of the date of approval of this *Revised Work Plan* by the NMOCD. BTA believes the scope of work described above meets the requirements set forth in 19.15.29.13 NMAC and is protective of human health, the environment, and groundwater. As such, BTA respectfully requests approval of this *Revised Work Plan* for Incident Numbers NCH1835547953, NAB1906552791, and NAB1906551740.

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

Sincerely, Ensolum, LLC

Aimee Cole Senior Managing Scientist

Ashley L. Ager

Ashley Ager, M.S., PG Principal

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

Appendices:

- Figure 1 Site Location Map (2023)
- Figure 2 Excavation Extent and Delineation Soil Sample Locations (2018/2019)
- Figure 3 Proposed Delineation Soil Sample Locations (2023)
- Table 1Soil Sample Analytical Results (2018/2019)
- Appendix A Referenced Well Records
- Appendix B Photographic Log (2019/2023)
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation (2019)
- Appendix D Final C-141s



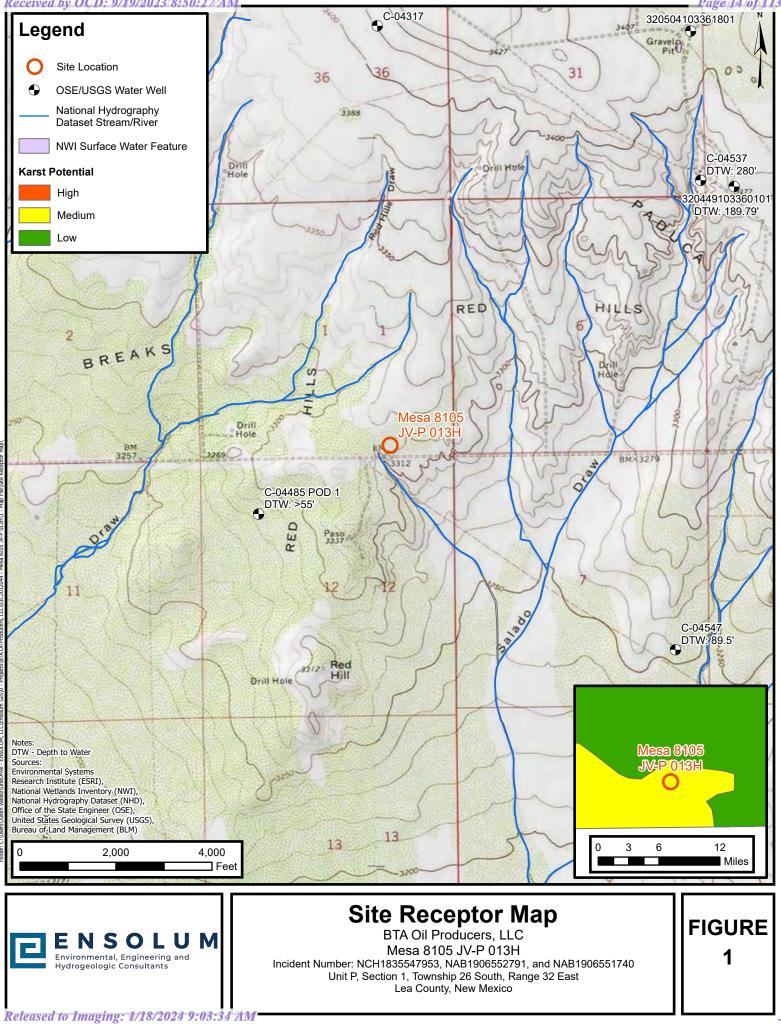


**FIGURES** 

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# TABLES

Mesa 13/18 Compressor Slop Tank Release - November 24, 2018; February 8, 2019; and February 9, 2019 OCD Tracking #: 1RP-5289 and 1RP-5383

			Comula	Field Sc	reening					Labor	atory Resul	ts				
Location	Status	Sample Date	Sample Depth (feet BGS)	PID Result (PPM)	Titration Result (mg/kg)	Chloride (mg/kg)	Total TPH (mg/kg)	TPH GRO + DRO (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH Ext DRO (mg/kg)
SP1	Removed	11/25/18	Surface	15,000+	149											
SP1	Removed	11/25/18	1	9,800	105											
SP1	In Situ	11/25/18	2	12,300	98											
SP1	In Situ	8/23/19	2			48	22,422	16,532	16.9	0.424	5.36	1.71	9.36	232	16,300	5,890
SP1	In Situ	11/25/18	3	1,700	174											
SP1	In Situ	8/23/19	4	2.9	98	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP1	In Situ	8/23/19	7	0	98	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP2	Removed	11/25/18	Surface	15,000+	1,149											
SP2	Removed	11/25/18	1	8,547	549											
SP2	In Situ	11/25/18	2	8,500	174											
SP2	In Situ	8/23/19	2			16	10,623	7,743	3.47	ND	0.365	0.416	2.69	52.5	7,690	2,880
SP2	In Situ	11/25/18	3	100	98											
SP2	In Situ	8/23/19	4	1.8	105	ND	10.1	ND	ND	ND	ND	ND	ND	ND	ND	10.1
SP2	In Situ	8/23/19	5	0	98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

#### NMOCD Table 1 - Closure Criteria for Soils Impacted by a Release (19.15.29.12)

Minimum Depth to GW less than 10,000 mg/l TDS

<= 50'	600	100	-	50	10
51' - 100'	10,000	2,500	1,000	50	10
>100'	20,000	2,500	1,000	50	10

#### **Reporting Limits:**

Chloride: 16.0 mg/kg Benzene, Toluene, Ethylbenzene: 0.050 mg/kg for each analyte Total Xylenes: 0.150 mg/kg Total BTEX: 0.300 mg/kg GRO (C6 - C10), DRO (>C10 - C28), Ext DRO (>C28 - C36): 10.0 mg/kg for each analyte



# APPENDIX A

Referenced Well Records



# WELL RECORD & LOG

# OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

TION	C-0	4485	5	OWL 362	WELL TAG ID NO. NA		OSE FILE N	4485	_				
LOCA'	KJ ENV	VIRONM	ENTAL				PHONE (OP 214-287-5	TIONAL)					
	SOO MC	WNER MAIL	ING ADDRESS ROAD				CITY CROSS R	OADS	STATE TX 76227	ZIP			
AL AND	WE		LATITUDE	DEGREES 3548560	MINUTES SE	CONDS	* ACCURAC	Y REQUIRED: ONE TE					
ENER	(FROM		LONGITUDE	629271		W	• DATUM RI	EQUIRED: WGS 84					
	DESCRIP	TION RELA	TING WELL LOCATION	TO STREET ADDRE	ESS AND COMMON LAND	DMARKS – PLS	S (SECTION, TO	OWNSHJIP, RANGE) W	HERE AVAILABLE				
T	LICENSE	NO. 0 1 1 86	NAME OF LICENSE		NEY HAMMER			NAME OF WELL DI		-			
T		STARTED	DRILLING ENDED 10/06/2020		PLETED WELL (FT)		E DEPTH (FT)	DEPTH WATER FIR	VIRO-DRILL, INC.	)			
	COMPLET	ED WELL IS	ARTESIAN	DRY HOLE			5'	None STATIC WATER LE	VEL IN COMPLETED W	ELL (FT)			
D	RILLING	FLUID:	AIR	MUD	ADDITIVES - SP	ECIFY:							
D	RILLING	METHOD:	ROTARY	HAMMER	CABLE TOOL	XOTHER	- SPECIFY:	SA					
1	DEPTH FROM	(inches)		(include eac	ATERIAL AND/OR GRADE h casing string, and tions of screen)	CAS CONNE TY (add couplin	ING CTION PE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLO SIZI (inche			
L	55	45		Scre		FJT		2"	2"	.01			
-	45	Ó	8"	BLO	ink	11		11	11 14				
						•			170 170	2020			
_									~	Nov			
									== 	10			
[	DEPTH (	feet bgl)	BORE HOLE	1187 4	NNULAR SEAL MA				T OT				
FR	ROM	то	DIAM. (inches)	GRAVEL	PACK SIZE-RANGE			AMOUNT (cubic feet)	METHOD				
4	55	43	8" 8"	San	1 10/20 Plug			10	tremi	E.			
4	17	0	8"	Gra	it '			100 gal.	++				
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aN

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WELL TAG ID NO.

PAGE 1 OF 2

LOCATION

	DEPTH (	feet hall	1					
	FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIA INCLUDE WATER-BEARING CAVITII (attach supplemental sheets to fu	ES OR FRACTURE	ZONES BEAL	TER RING? / NO)	ESTIMATEL YIELD FOR WATER- BEARING ZONES (gpm
	0	10		Sand + assault		Y		
	10	25		Sand + gravel gravel + Calic Caliche	l.	Y	0	
	25	45		Calicho	na	Y	0	
	45	55		Sandstone		Y	8	
				- maring		Y	N	
1						Y	N	
THE PRODECTORIC FOR OF WELL						Y	N	
5					- Carlonnel attacht - 14	Y	N	
						Y	N	
						Y	N	
					140	Y	N	
						Y	N	1
						Y	N	
						Y	N	
						Y	N	
						Y	N	
						Y	N	
						Y	N	
						Y	N	
						Y	N	
				1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -		Y	N	E D
	METHOD US	SED TO EST	TIMATE YIELD	OF WATER-BEARING STRATA:		TOTAL ESTIM	ATED	1001
			R LIFT	BAILER OTHER - SPECIFY:		WELL YIELD		0.00
	WELL TEST	TEST R START	ESULTS - ATTA TIME, END TIM	CH A COPY OF DATA COLLECTED DURIN E, AND A TABLE SHOWING DISCHARGE	NG WELL TESTIN AND DRAWDOW	G, INCLUDING DISCH N OVER THE TESTIN	IARGE N G PERIO	NETHOD, Z
	MISCELLAN	EOUS INFO	DRMATION:					1-114
	PRINT NAMI	E(S) OF DR	ILL RIG SUPERV	VISOR(S) THAT PROVIDED ONSITE SUPER	VISION OF WELL	CONSTRUCTION OT	THER TH	AN LICENSEE
	CORRECTRI	RMIT HOL	DER WITHIN 20	ES THAT, TO THE BEST OF HIS OR HER K SCRIBED HOLE AND THAT HE OR SHE W DAYS AFTER COMPLETION OF WELL DR Rodney Hamm / PRINT SIGNEE NAME	ILL FILE THIS WI ULLING:	10 - 14	HE STAT	re engineer
R	OSE INTERN	AL USE			W/P O	WELL RECORD &	00.0	ion 06/20/2017
-	NO.			POD NU.	TRN N	WELL RECORD & L	UU (Vers	sion 06/30/2017
_						·O.		



# APPENDIX B

Photographic Log



Facing North



Digging up release



Spill excavated



Spill Excavated



Spill Excavated



Aerial View -South View



Facing west



Facing South



Facing Northwest



Facing North









Northeast



Facing West



Facing East



North



South



Spill Area Facing South

•

	Photographic Log BTA Oil Producers, LLC Mesa 8105 JV-P 013H
Date & Time: Tue. May 30, 2023 at 12,04,57 MDT	Date & Time, Tue, May 30, 2023 at 12 05;31 MDT
Position -+032 066180° / -103.624546° (±15.70)	Peolition: +032 066279' / +103 624314' (±15 6f)
Althoug 33281 (±10.08)	Attitude: 3324f (±11.00)
Datum WSS-84	Datum: WSS-84
AzamutWasaning: 010° N10E 0178mits True (±11°)	Arimuth/Beshing: 265 N/25W 5067mits True (±12')
Elevation Angle: -02.6	Elevation Angle: +0.1'
Harizon Angle: -02.6	Zoenn: 05A
Harizon 30 Del:	Telefayation backfill
Harizon 0 DBI	Mariofia (10el)
Harizon 0 DBI	Understand Beshing: A state of the state
Photograph: 1 Date: 5/30/2023	Photograph: 2 Date: 5/30/2023
Description: Historical release area/backfilled excavation	Description: Historical release area/backfilled excavation
View: North	View: West
Date & Time: Tue: May 30, 2023 at 12.06 36 MDT         Position: +032.065369*/* +103.6249/33* (±15.5ft)         Althude: 3324ft-te1111ft         Datim: WS5-584         Annuth/Bearing: 0/91 5848.1702/mls Troe (± 2)*         Elevation: Angle: -0.0 2*         Born: D5%         Corrison: D5%         Table: WS5-584         Position: Angle: -0.0 2*         Born: D5%         Carrier ast backfilt         Minana: DDB: WS5-584         DB: WS5-584         Date: State St	Date & Time, Tue, May 90, 2023 at 1/2 09/17 MDT Position - 4032 066545 ( - 103-624436 * e15.60) Aftitude, 33281 + 61 100: Datum: MoSH44 Arimith: Bearing 1: 001: 521W / 3573mills Trus (±12:) Elecation: Angle: -01:27 Zournt 0:5X Bearing - other at 100: Bearing - ot
Photograph: 3 Date: 5/30/2023	Photograph: 4 Date: 5/30/2023
Description: Historical release area/backfilled excavation	Description: Historical release area/backfilled excavation
View: East	View: South



## APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



August 27, 2019

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA 13 - 18

Enclosed are the results of analyses for samples received by the laboratory on 08/26/19 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312 08/26/2019 08/27/2019 Sampling Date: 08/23/2019 Soil

Received:	08/26/2019	Sampling Date:	08/23/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	MESA 13 - 18	Sampling Condition:	Cool & Intact
Project Number:	COMPRESSOR 3 SPILLS	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

#### Sample ID: SP 1 @ 2' (H902935-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.424	0.050	08/27/2019	ND	1.69	84.7	2.00	0.243	
Toluene*	5.36	0.050	08/27/2019	ND	1.90	94.9	2.00	0.313	
Ethylbenzene*	1.71	0.050	08/27/2019	ND	2.03	101	2.00	1.70	
Total Xylenes*	9.36	0.150	08/27/2019	ND	6.22	104	6.00	2.17	
Total BTEX	16.9	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	48.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	232	50.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	16300	50.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	5890	50.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	127	% 41-142	2						
Surrogate: 1-Chlorooctadecane	916	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



**BTA Oil Producers** BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312 Received: 08/26/2019 Sampling Date: 08/23/2019 Reported: 08/27/2019 Sampling Type: Soil Project Name: MESA 13 - 18 Sampling Condition: Cool & Intact COMPRESSOR 3 SPILLS Sample Received By: Project Number: Tamara Oldaker Project Location: LEA CO

#### Sample ID: SP 1 @ 4' (H902935-02)

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	08/27/2019	ND	1.69	84.7	2.00	0.243	
Toluene*	<0.050	0.050	08/27/2019	ND	1.90	94.9	2.00	0.313	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	2.03	101	2.00	1.70	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.22	104	6.00	2.17	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/27/2019	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	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	113 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	123 9	37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



**BTA Oil Producers** BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312 Received: 08/26/2019 Sampling Date: 08/23/2019 Reported: 08/27/2019 Sampling Type: Soil Project Name: MESA 13 - 18 Sampling Condition: Cool & Intact COMPRESSOR 3 SPILLS Sample Received By: Project Number: Tamara Oldaker Project Location: LEA CO

#### Sample ID: SP 1 @ 7' (H902935-03)

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	08/27/2019	ND	1.69	84.7	2.00	0.243	
Toluene*	<0.050	0.050	08/27/2019	ND	1.90	94.9	2.00	0.313	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	2.03	101	2.00	1.70	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.22	104	6.00	2.17	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 73.3-12	9						
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	08/27/2019	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	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	125 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	135 9	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



**BTA Oil Producers** BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312 Received: 08/26/2019 Sampling Date: 08/23/2019 Reported: 08/27/2019 Sampling Type: Soil Project Name: MESA 13 - 18 Sampling Condition: Cool & Intact COMPRESSOR 3 SPILLS Sample Received By: Project Number: Tamara Oldaker Project Location: LEA CO

#### Sample ID: SP 2 @ 2' (H902935-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/26/2019	ND	1.69	84.3	2.00	0.552	
Toluene*	0.365	0.050	08/26/2019	ND	1.88	94.0	2.00	1.51	
Ethylbenzene*	0.416	0.050	08/26/2019	ND	1.96	97.9	2.00	1.18	
Total Xylenes*	2.69	0.150	08/26/2019	ND	6.08	101	6.00	1.15	
Total BTEX	3.47	0.300	08/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	16.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	52.5	10.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	7690	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	2880	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	115 %	% 41-142	2						
Surrogate: 1-Chlorooctadecane	497 9	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



**BTA Oil Producers** BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312 Received: 08/26/2019 Sampling Date: 08/23/2019 Reported: 08/27/2019 Sampling Type: Soil Project Name: MESA 13 - 18 Sampling Condition: Cool & Intact COMPRESSOR 3 SPILLS Sample Received By: Project Number: Tamara Oldaker Project Location: LEA CO

#### Sample ID: SP 2 @ 4' (H902935-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2019	ND	1.69	84.3	2.00	0.552	
Toluene*	<0.050	0.050	08/26/2019	ND	1.88	94.0	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/26/2019	ND	1.96	97.9	2.00	1.18	
Total Xylenes*	<0.150	0.150	08/26/2019	ND	6.08	101	6.00	1.15	
Total BTEX	<0.300	0.300	08/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	10.1	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	115 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	126 9	% 37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



**BTA Oil Producers** BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312 Received: 08/26/2019 Sampling Date: 08/23/2019 Reported: 08/27/2019 Sampling Type: Soil Project Name: MESA 13 - 18 Sampling Condition: Cool & Intact COMPRESSOR 3 SPILLS Sample Received By: Project Number: Tamara Oldaker Project Location: LEA CO

#### Sample ID: SP 2 @ 5' (H902935-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2019	ND	1.69	84.3	2.00	0.552	
Toluene*	<0.050	0.050	08/26/2019	ND	1.88	94.0	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/26/2019	ND	1.96	97.9	2.00	1.18	
Total Xylenes*	<0.150	0.150	08/26/2019	ND	6.08	101	6.00	1.15	
Total BTEX	<0.300	0.300	08/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	114 9	% 41-142							
Surrogate: 1-Chlorooctadecane	124 9	37.6-14	7						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

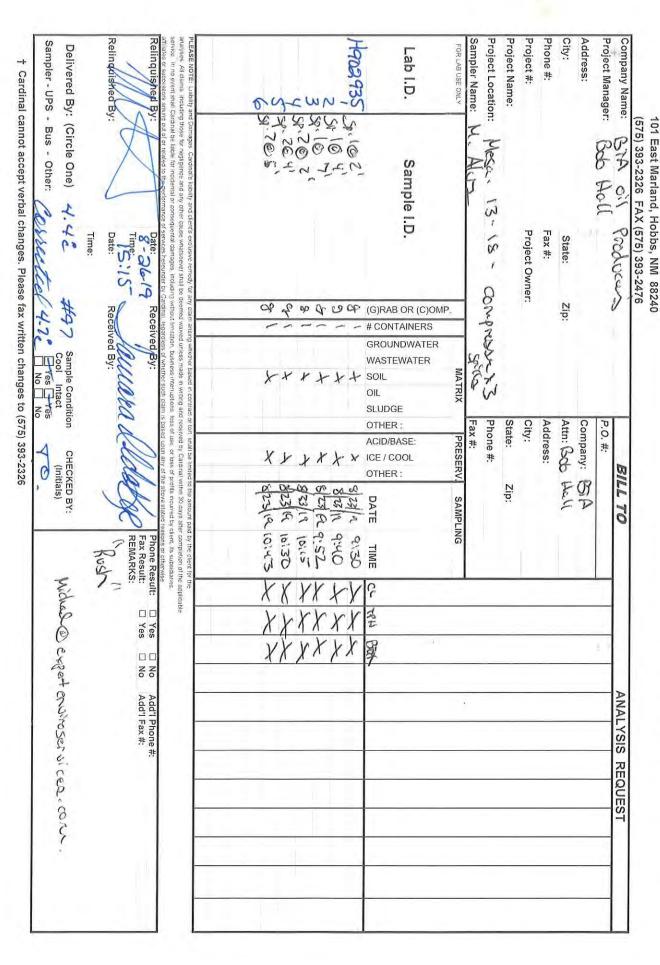
#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST





# APPENDIX D

Final C-141s

District I 1625 N. French Dr., Hobbs, NM 88240 District (I 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	NCH1835547953
District RP	1RP-5289
Facility ID	
Application ID	

# **Release Notification**

### **Responsible Party**

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

### Location of Release Source

Latitude 32.0660734285\_

Longitude 103.624070083 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Mesa 8105 JV-P 013H (compressor)	Site Type well pad
Date Release Discovered 11/24/2018	API# (If applicable) 30-025-42849

Unit Letter	Section	Township	Range	County	
Р	1	265	32E	Lea	

Surface Owner: State Federal Tribal Private (Name:

### Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 10	Volume Recovered (bbls) 5
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
Malfunction on compre	ssor caused slop tank to overflow.	

Form C-141	State of New Mexico		
Page 2		Incident ID	NCH1835547953
	Oil Conservation Division	District RP	1RP-5289
		Facility ID	

Application ID

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
	Yes 19.15.29.7 (A) defines 25 BBL or more a major release
X Yes 🗌 No	
If VES was immediate no	botice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
It i Lo, was infinediate in	sites given to the obbit by when it to when and by what means (phone, chian, etc)?
No	

### **Initial Response**

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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Ben Gomes Signature: Ben Frings	Title: Production Manager Date: 1112612018
email: BGrimes@ BTAO;1. Com	Telephone: <u>432-682-3753</u>
OCD Only	
Received by:	Date:

Received by OCD: 9/19/2023/8:50:27/AM State of New Mexico

Oil Conservation Division

	Page 40 26 11.
Incident ID	NCH835547953
District RP	1RP-5289
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;55</u> (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 <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  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.

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Form C-141 Page 4	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	NCH835547953 1RP-5289
regulations all operations all operations all operations all operations and on the effailed to adequately is addition, OCD acception and/or regulations. Printed Name: Korrect Signature:	the information given above is true and complete to the tors are required to report and/or file certain release not environment. The acceptance of a C-141 report by the C investigate and remediate contamination that pose a thro otance of a C-141 report does not relieve the operator of elton Beaird abtaoil.com	ifications and perform co OCD does not relieve the eat to groundwater, surfa-	rrective actions for relea operator of liability sho ce water, human health iance with any other fed al Manager	ases which may endanger ould their operations have or the environment. In
OCD Only Received by:	Jocelyn Harimon	Date: <u>06</u>	/08/2023	

State of New Mexico Oil Conservation Division

Incident ID	NCH835547953
District RP	1RP-5289
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

Extents of contamination must be fully delineated.

Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kelton Beaird	Title: <u>Environmental Manager</u>
Signature:	Date: <u>6-6-23</u>
email:kbeaird@btaoil.com	Telephone:432-312-2203
OCD Only	
Received by: Jocelyn Harimon	Date: 06/08/2023
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

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

Page 43:0f 113

Incident ID	NAB1906552791
District RP	1RP-5383
Facility ID	
Application ID	

# **Release Notification**

### **Responsible Party**

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) NAB1906552791
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

### **Location of Release Source**

Latitude: 32.06584° Longitude: -103.62410°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P 13/18 Compressor	Site Type: Well Pad
Date Release Discovered: 2/8/2019	API# (if applicable) Nearest well: Mesa 8195 JV-P #013H
	API #30-025-42849

Unit Letter	Section	Township	Range	County
Р	1	265	32E	Lea

Surface Owner: State Federal Tribal Private (

### Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 18 BBL	Volume Recovered (bbls) 18 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Due to an equipment failure on the compressor, oil was pushed over to the slop tank, which overflowed. The oil was recovered with a vacuum truck.

ne ?			Incident ID	NAB1906552791
ge 2 Oil Conservatio	Oil Conservation	Division	District RP	1RP-5383
			Facility ID	
		Application ID		
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) of	loes the responsible party	consider this a major release	?
Yes 🛛 No				
If YES, was immediate r	otice given to the OCD? By v	whom? To whom? When	n and by what means (phone,	email, etc)?
		Initial Response		
The responsible	party must undertake the following a	ctions immediately unless they c	could create a safety hazard that wo	ıld result in injury
The source of the rel	ease has been stopped.			
	**	an baaldh an 14ta ann '		
	is been secured to protect hum			
Released materials h	ave been contained via the use	e of berms or dikes, absor	bent pads, or other containme	ent devices.
All free liquids and r	ecoverable materials have bee	n removed and managed	appropriately.	
	ecoverable materials have bee		appropriately.	
	ecoverable materials have bee d above have <u>not</u> been underta		appropriately.	
			appropriately.	
If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach		aken, explain why: y commence remediation If remedial efforts have	immediately after discovery	d or if the release occurr
Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme l hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of	d above have <u>not</u> been underta IAC the responsible party may a narrative of actions to date.	Aken, explain why: y commence remediation If remedial efforts have (a) NMAC), please attach complete to the best of my kn cain release notifications and report by the OCD does not that pose a threat to ground	immediately after discovery e been successfully complete a all information needed for c nowledge and understand that pu perform corrective actions for r t relieve the operator of liability water, surface water, human heal	d or if the release occurr losure evaluation. ursuant to OCD rules and eleases which may endange should their operations have th or the environment. In
If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations.	d above have <u>not</u> been underta IAC the responsible party may a narrative of actions to date. nt area (see 19.15.29.11(A)(5) rmation given above is true and c required to report and/or file cert ment. The acceptance of a C-141 gate and remediate contamination	aken, explain why: y commence remediation If remedial efforts have (a) NMAC), please attack complete to the best of my kn cain release notifications and report by the OCD does not that pose a threat to ground the operator of responsibility	immediately after discovery e been successfully complete a all information needed for c nowledge and understand that pu perform corrective actions for r t relieve the operator of liability water, surface water, human heal	d or if the release occurr losure evaluation. ursuant to OCD rules and eleases which may endanger should their operations have th or the environment. In
If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations.	d above have <u>not</u> been underta IAC the responsible party may a narrative of actions to date. at area (see 19.15.29.11(A)(5) rmation given above is true and c required to report and/or file cert ment. The acceptance of a C-141 gate and remediate contamination f a C-141 report does not relieve	Aken, explain why: y commence remediation If remedial efforts have (a) NMAC), please attach complete to the best of my kn ain release notifications and report by the OCD does not that pose a threat to groundy the operator of responsibility Manager	immediately after discovery e been successfully complete a all information needed for c nowledge and understand that pu perform corrective actions for r t relieve the operator of liability water, surface water, human heal	d or if the release occurr losure evaluation. ursuant to OCD rules and eleases which may endanger should their operations have th or the environment. In
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Received by OCD: 9/19/2023/8:50:27/AM State of New Mexico

Oil Conservation Division

	Page 45 of 11.
Incident ID	NAB1906552791
District RP	1RP-5383
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;55</u> (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 <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  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.

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Page 3

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Form C-141 Page 4	State of New Mexico Oil Conservation Division	l	Incident ID District RP Facility ID Application ID	NAB1906552791 1RP-5383
regulations all operators ar public health or the enviro failed to adequately invest	lt fo	otifications and perform co cocd does not relieve the reat to groundwater, surfa	prrective actions for rele operator of liability shi ce water, human health iance with any other fe tal Manager	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:		_ Date:		

Form C-141	State of New Mexico	Incident ID	NAB1906552791
Page 5	e 5 Oil Conservation Division	District RP	1RP-5383
-		Facility ID	
		Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

Extents of contamination must be fully delineated.

Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kelton Beaird	Title: <u>Environmental Manager</u>
Signature:	Date:
email:kbeaird@btaoil.com	Telephone:432-312-2203
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

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

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Incident IDNAB1906551740District RP1RP-5383Facility IDApplication ID

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# **Release Notification**

### **Responsible Party**

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) NAB1906551740
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

### **Location of Release Source**

Latitude: 32.06584° Longitude: -103.62410°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P 13/18 Compressor	Site Type: Well Pad
Date Release Discovered: 2/9/2019	API# (if applicable) Nearest well: Mesa 8195 JV-P #013H
	API #30-025-42849

Unit Letter	Section	Township	Range	County	
Р	1	265	32E	Lea	

Surface Owner:	☐ State	🔀 Federal	Tribal	$\square$	Private	(
Duringe Ommeri		I UGUIGI				۰.

### Nature and Volume of Release

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

🔀 Crude Oil	Volume Released (bbls) 18 BBL	Volume Recovered (bbls) 18 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Course of Dalasse		

Cause of Release

The same equipment failure on the compressor, as occurred as a separate event and reported for 2/8/2019, pushed oil over to the slop tank and caused the tank to overflow. The oil was recovered with a vacuum truck.

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age 2 Oil 0	Oil Conservation Division	District RP	1RP-5383
		Facility ID	IKF-3303
		Application ID	pAB1906551401
		Application ID	PAB1900551401
Was this a major release as defined by 19.15.29.7(A) NMAC? Yes X No	If YES, for what reason(s) does the responsible part	ty consider this a major release?	
If YES, was immediate n	notice given to the OCD? By whom? To whom? Who	en and by what means (phone, e	mail, etc)?
an si t	Initial Response		
The responsible	party must undertake the following actions immediately unless they	y coula creale a sajety nazara inal would	a result in injury
The source of the rel	ease has been stopped.		
The impacted area ha	as been secured to protect human health and the enviro	onment.	
Released materials h	ave been contained via the use of berms or dikes, abso	orbent pads, or other containmen	t devices.
	ecoverable materials have been removed and managed		
<b>_</b>			
in an une actions describe	d above have <u>not</u> been undertaken, explain why:		
	AC the responsible party may commence remediation a narrative of actions to date. If remedial efforts have		

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

Printed Name: Bob Hall Title: Environmental Manager

stamente

Signature:	Bell	÷	

Date: 2/22/2018

Date: 3/6/2019

email: bhall@btaoil.com

Telephone: 432-682-3753

OCD Only Received by: Received by OCD: 9/19/202328:50:27 AM State of New Mexico

Oil Conservation Division

	Page 5020f11	3
Incident ID	NAB1906551740	
District RP	1RP-5383	
Facility ID		
Application ID		

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;55</u> (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 <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

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- Field data

Page 3

- Data table of soil contaminant concentration data
- $\boxtimes$  Depth to water determination
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- Boring or excavation logs
- Photographs including date and GIS information
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- 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.

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Form C-141 Page 4	State of New Mexico Oil Conservation Divisio	n	Incident ID District RP Facility ID Application ID	NAB1906551740 1RP-5383
regulations all operators as public health or the enviro failed to adequately invest	lt il	otifications and perform co e OCD does not relieve the hreat to groundwater, surfa	arrective actions for release operator of liability sh ce water, human health iance with any other fe tal Manager	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:		Date:		

Form C-141	State of New Mexico	Incident ID	NAB1906551740
Page 5	Oil Conservation Division	District RP	1RP-5383
		Facility ID	
		Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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Printed Name: Kelton Beaird	Title: <u>Environmental Manager</u>
Signature:	Date: <u>6-6-23</u>
email:kbeaird@btaoil.com	Telephone:432-312-2203
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	225624
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jharimon	This Workplan/Remediation proposal is approved with the following conditions: • All (floor/sidewall) closure samples on pad will need to meet closure criteria standards for depth to water of 51'-100' in Table 1 of the Spill Rule. • Please have soil samples analyzed for all components in Table 1 of the spill rule. The link to the current spill rule as well as the Procedures for Implementation are provided for your convenience. • Please note that, when the well or facility is plugged or abandoned, the final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	6/23/2023
jharimon	The OCD wants to clarify that the entire release area will not be deferred, only the sample points that are around production equipment such as production tanks, wellheads, and pipelines. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water.	6/23/2023

CONDITIONS

Action 225624



# APPENDIX B

Photographic Log

Released to Imaging: 1/18/2024 9:03:34 AM





APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 9/13/2023
				6 6				Site Name: Mesa 8105 JV-P 013	
		E	N	SC		U		Incident Number: nCH18355479	
								Job Number: 03C2012044	
		LITHOI	OGI	C / SOIL SAM		OG		Logged By: MR	Method: Mini Excavator
Coordir	ates: 32.0							Hole Diameter: NA	Total Depth: 4'
					H Chloride	e Test Strips	and PID fo	r chloride and vapor, respectivel	•
								n all chloride screenings.	· ·
				0	Sampl		~		
Moisture Content	Chloride (ppm)	or 1)	Staining	Sample ID	e	Depth	USCS/Rock Symbol		
oist ont	Chloride (ppm)	Vapor (ppm)	tain	dm	Depth	(ft bgs)	cs/ ym	Lithologic De	escriptions
Σŭ						-	US S		
						0	CCHE	0-4' CALICHE, med brown,	medium to coarse
								grained, poorly sorted, stain, no odor, moist.	sub-rounded grains, no
М	398	5.3	Ν	BH01	1	_ 1			
					-	ŀ			
	200	0.2			_				
М	280	0.2	Ν		_	2			
					_	_			
М	<173.6	0.1	Ν		-	3			
	1,010	0.1							
					_	_			
М	240.8	0	Ν	BH01A	4	 			
					-	TD		Total Depth @ 4' bgs.	
					_	_			
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								Sample Name: BH02	Date: 9/13/2023
								Site Name: Mesa 8105 JV-P 013	
			N	SC	) L	U		Incident Number: nCH1835547	
								Job Number: 03C2012044	333
			061	C / SOIL SAM		)6		Logged By: MR	Method: Mini Excavator
Coordin	ates: 32.00							Hole Diameter: NA	Total Depth: 4'
					H Chloride	Tost Strins	and PID fo	or chloride and vapor, respective	
								n all chloride screenings.	
a, 1	0			D	Sampl		×		
Moisture Content	Chloride (ppm)	n) a	Staining	Sample ID	е	Depth	USCS/Rock Symbol	Lithelesie D	
lois	chloride (ppm)	Vapor (ppm)	tair	dm	Depth	(ft bgs)	ym Vm	Lithologic D	escriptions
ΣO	(it bgs)						SU		
						0	CCHE	0-4' CALICHE, med brown	, medium to coarse
					-	-		grained, poorly sorted, stain, no odor, moist.	sub-rounded grains, no
					+	-			
М	174	2.7	Ν	BH02	1	1			
					+	-			
						-			
М	<173.6	0.0	Ν		-	2			
						-			
	.472.6	0.0			]				
М	<173.6	0.0	Ν		-	3			
						-			
м	<173.6	0.0	N	BH02A	4	4			
101	<173.0	0.0	IN	BHUZA	4 -	TD		Total Depth @ 4' bgs.	
					-	_			
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					1	-			

						-		Sample Name: BH03	Date: 9/13/2023
			N	SC		U.		Site Name: Mesa 8105 JV-P 01	
			-					Incident Number: nCH183554	/953
J			0.01	<u> </u>				Job Number: 03C2012044	
o !!				C / SOIL SAM	PLING L	UG		Logged By: MR	Method: Mini Excavator
	ates: 32.00					<b>T</b> CL		Hole Diameter: NA	Total Depth: 4'
								or chloride and vapor, respectiven all chloride screenings.	ely. Chloride test performed
WILLI 1.4				uistilleu water.	T				
rt E	) de		g	D	Sampl		USCS/Rock Symbol		
Moisture Content	oric pm			Depth	SCS/Roc Symbol	Lithologic I	Descriptions		
Cor	dad an Stail p 4 p 4			Depth	(ft bgs)	SCS		•	
1	_			S	(ft bgs)		_		
					1	0	CCHE	0-2' CALICHE, med brown grained poorly sorted	h, medium to coarse l, sub-rounded grains, no
						-		stain, no odor, moist.	,
м	<173.6	1.3	N	BH03	1 -	1			
IVI	×1/3.0	1.5		впоз					
					_	-			
М	<173.6	0.3	N			2		2-4' CALICHE, red/ mediu	ım brown, medium to
		2.0			-			coarse grained, poorly	sorted, sub-rounded
					-	_		grains, no stain, no od	or, moist.
М	<173.6	0.0	Ν		-	3			
					-	-			
					-	_			
М	<173.6	0.0	Ν	BH03A	4	4			
					-	TD		Total Depth @ 4' bgs.	
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12								Sample Name: BH04	Date: 9/13/2023
			N	SC				Site Name: Mesa 8105 JV-P 013	
								Incident Number: nCH18355479	953
				- /				Job Number: 03C2012044	
				C / SOIL SAM	PLING L	DG		Logged By: MR	Method: Mini Excavator
	ates: 32.0							Hole Diameter: NA	Total Depth: 4'
								or chloride and vapor, respective n all chloride screenings.	ly. Chloride test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sampl e Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	
						L 0 - -	CCHE	0-1' CALICHE, med brown, grained, poorly sorted, stain, no odor, moist.	, medium to coarse sub-rounded grains, no
М	302	4.2	N	BH04	1	1		1-4' CALICHE, red/ light br grained, poorly sorted, stain, no odor, moist.	own, medium to coarse sub-rounded grains, no
М	<173.6	0.0	N		-	2			
М	<173.6	0.1	N			3			
м	<173.6	0.0	N	BH04A	4			Total Depth @ 4' bgs.	
								Total Depth @ 4' bgs.	

								Sample Name: BH05	Date: 9/13/2023
				6				Site Name: Mesa 8105 JV-P 01	
			N	SC	) L	U	M	Incident Number: nCH1835547	
								Job Number: 03C2012044	
			OGI	C / SOIL SAM		16		Logged By: MR	Method: Mini Excavator
Coordir	nates: 32.0							Hole Diameter: NA	Total Depth: 4'
					H Chloride	Test Strins	and PID fo	or chloride and vapor, respective	
								n all chloride screenings.	
	Ι			-	Sampl		~		
Moisture Content	Chloride (ppm)	n) J	Staining	Sample ID	e	Depth	USCS/Rock Symbol		
oist	Chloride (ppm)	Vapor (ppm)	ain	Idu	Depth	(ft bgs)	/mt	Lithologic I	Descriptions
ΣŬ	$\begin{array}{c c} c \\ c$				(	US(			
					(10 060)	0		0-4' CALICHE, med browr	n, medium to coarse
						-		grained, poorly sorted	, sub-rounded grains, no
								stain, no odor, moist.	
М	1,002	6.1	Ν	BH05	1	1			
					-	-			
						_			
М	<173.6	0.0	Ν		]	2			
					-	-			
						-			
Μ	<173.6	0.0	Ν			3			
						-			
	-172 C	0.0							
Μ	<173.6	0.0	Ν	BH05A	4 _	4 TD		Total Depth @ 4' bgs.	
					_	_			
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						_			
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li									
						_		Sample Name: BH06	Date: 9/13/2023
		Ξ	N	SC				Site Name: Mesa 8105 JV-P 013	
				-				Incident Number: nCH18355479	953
					BLUE :			Job Number: 03C2012044	
				C / SOIL SAM	PLING LO	DG		Logged By: MR	Method: Mini Excavator
	ates: 32.0							Hole Diameter: NA	Total Depth: 4'
		-	-			•		or chloride and vapor, respective n all chloride screenings.	ly. Chloride test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sampl e Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	
м	1,271	7.3	N	BH06	1		CCHE	<ul> <li>0-1' CALICHE, med brown, grained, poorly sorted, stain, no odor, moist.</li> <li>1-4' CALICHE, red/ light br grained, porrly sorted,</li> </ul>	sub-rounded grains, no rown, medium to coarse
М	<173.6	0.0	N			2		stain, no odor, moist.	
М	241	0.1	N			3			
Μ	280	0.0	Ν	BH06A		4 TD		Total Depth @ 4' bgs.	

.

<b>I</b>									
								Sample Name: BH07	Date: 9/13/2023
			N	SC		U		Site Name: Mesa 8105 JV-P 013	
								Incident Number: nCH18355479	153
			001					Job Number: 03C2012044	
				C / SOIL SAM	PLING LC	JG		Logged By: MR	Method: Mini Excavator
	ates: 32.0					T		Hole Diameter: NA	Total Depth: 4'
					A 40% err			r chloride and vapor, respectivel n all chloride screenings.	y. Chioride test performed
Moisture Content	Chloride (ppm)	(mdd) (ppm)	Staining	Sample ID	Sampl e Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	
М	<173.6	5.0	N	BH07	1	0 - - - -	CCHE	0-2' CALICHE, med brown, grained, poorly sorted, stain, no odor, moist.	medium to coarse sub-rounded grains, no
М	<173.6	0.0	N			2		2-4' CALICHE, red/ light br grained, porrly sorted, s stain, no odor, moist.	own, medium to coarse sub-rounded grains, no
М	<173.6		N			3			
м	<173.6	0.0	Ν	BH07A		4 TD		Total Depth @ 4' bgs.	

1									
10								Sample Name: BH08	Date: 9/13/2023
		E	N	SC			M	Site Name: Mesa 8105 JV-P 013H	
				-				Incident Number: nCH18355479	53
								Job Number: 03C2012044	- I
		LITHOL	.OGI	C / SOIL SAM	PLING LO	DG		Logged By: MR	Method: Mini Excavator
	ates: 32.0							Hole Diameter: NA	Total Depth: 4'
								or chloride and vapor, respectively n all chloride screenings.	y. Chloride test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sampl e Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	
М	459	1.5	N	BH08		0 	CCHE	0-2' CALICHE, med brown, grained, poorly sorted, s stain, no odor, moist.	medium to coarse sub-rounded grains, no
М	<173.6		N			2		2-4' CALICHE, red/ light bro grained, poorly sorted, s stain, no odor, moist.	own, medium to coarse sub-rounded grains, no
М	<173.6	0.3	N		-	3			
Μ	<173.6	0.4	Ν	BH08A	4	4 - TD 		Total Depth @ 4' bgs.	

ī									
								Sample Name: BH09	Date: 9/13/2023
			N	SC			M	Site Name: Mesa 8105 JV-P 013	
				-				Incident Number: nCH18355479	53
								Job Number: 03C2012044	1
				C / SOIL SAM	PLING L	OG		Logged By: MR	Method: Mini Excavator
	ates: 32.0							Hole Diameter: NA	Total Depth: 4'
		-	-			•		or chloride and vapor, respectively n all chloride screenings.	y. Chloride test performed
				0	Sampl		×		
ture	ride n)	יס ש	ing	le II	e	Depth	R oc bol		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Depth	(ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
ΣŬ							SU		
						0	CCHE	0-1' CALICHE, med brown,	medium to coarse
					-	-		grained, poorly sorted, s stain, no odor, moist.	sub-rounded grains, no
					-	-		stain, no ouor, moist.	
м	<173.6	1.5	Ν	BH09	1	_ 1		1-4' CALICHE, red/ light bro	own, medium to coarse
					-	-		grained, poorly sorted, stain, no odor, moist.	sub-rounded grains, no
						-			
м	<173.6	0.0	Ν		_	_ 2			
					-	-			
	<172 C	0.0	N		-				
М	<173.6	0.0	Ν			3			
					_	-			
м	<173.6	0.0	N	BH09A	4	4			
1.11	×175.0	0.0		DIIUJA		TD		Total Depth @ 4' bgs.	
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								Sample Name: BH10	Date: 9/13/2023
		_						Site Name: Mesa 8105 JV-P 01	
				SC	) L	U	M	Incident Number: nCH183554	
								Job Number: 03C2012044	7355
			061	C / SOIL SAM		76		Logged By: MR	Method: Mini Excavator
Coordin	ates: 32.00			-				Hole Diameter: NA	Total Depth: 4'
					H Chloride	Test Strins	and PID fo	or chloride and vapor, respective	
					A 40% err			n all chloride screenings.	ely. ellionae test performed
e t	e		മ	≙	Sampl		z –		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	е	Depth	USCS/Rock Symbol	Lithologic I	Descriptions
Joi	Chlc (pp	Va (pț	Stai	aml	Depth	(ft bgs)	scs Syn		
20	0		0,	Si	(ft bgs)	-			
						0	CCHE	0-4' CALICHE, med brown	n, medium to coarse
					-	-		stain, no odor, moist.	, sub-rounded grains, no
						-			
Μ	<173.6	1.0	Ν	BH10	1 _	_ 1			
					-	F			
	.470.6	0.0				-			
Μ	<173.6	0.0	Ν		-	_ 2			
						-			
	-170 C	0.0			-				
Μ	<173.6	0.0	Ν		_	3			
						-			
м	<173.6	0.0	N	BH10A	4	4			
IVI	<173.0	0.0		BILIDA	4 -	TD		Total Depth @ 4' bgs.	
						-			
					-	-			
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					_	_			
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# APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 10, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: MESA 8105 JV-P 013H

Enclosed are the results of analyses for samples received by the laboratory on 08/04/23 13:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

### Sample ID: BH 01 1' (H234166-01)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	480	16.0	08/08/2023	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	153	76.3	200	4.51	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	145	72.3	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whother is subsidiaries, affiliates or successor 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 02 1' (H234166-02)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	128	16.0	08/08/2023	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	153	76.3	200	4.51	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	145	72.3	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	61.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.4	% 49.1-14	8						

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\*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: 08/04/2023 Sampling Date:

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 03 1' (H234166-03)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
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	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/08/2023	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	153	76.3	200	4.51	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	145	72.3	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	67.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.5	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Oldaker



### Analytical Results For:

**ENSOLUM** HADLIE GREEN **3122 NATIONAL PARKS HWY** CARLSBAD NM, 88220 Fax To: 08/04/2023 Sampling Date:

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldake
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 04 1' (H234166-04)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/08/2023	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	153	76.3	200	4.51	
DRO >C10-C28*	135	10.0	08/09/2023	ND	145	72.3	200	3.19	
EXT DRO >C28-C36	52.6	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	73.7	48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: 08/04/2023 Sampling Date:

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 05 1' (H234166-05)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
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	816	16.0	08/08/2023	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	153	76.3	200	4.51	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	145	72.3	200	3.19	
EXT DRO >C28-C36	35.9	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	76.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: 08/04/2022

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 06 1' (H234166-06)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	1170	16.0	08/08/2023	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	153	76.3	200	4.51	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	145	72.3	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



00/04/2022

## Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: 08/04/2023 Sampling Date:

Receiveu.	00/04/2023	Sampling Date.	00/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 07 1' (H234166-07)

Docoivod:

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
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	48.0	16.0	08/08/2023	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	153	76.3	200	4.51	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	145	72.3	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 08 1' (H234166-08)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	496	16.0	08/08/2023	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	08/08/2023	ND	157	78.6	200	5.45	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	165	82.4	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 09 1' (H234166-09)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
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	16.0	16.0	08/08/2023	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	08/08/2023	ND	157	78.6	200	5.45	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	165	82.4	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To: 08/04/2022

Received:	08/04/2023	Sampling Date:	08/04/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.066073425,-103.624070083		

#### Sample ID: BH 10 1' (H234166-10)

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	2.01	101	2.00	6.03	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	97.8	2.00	5.77	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.80	96.7	6.00	6.20	
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	16.0	16.0	08/08/2023	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	08/08/2023	ND	157	78.6	200	5.45	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	165	82.4	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					
Surrogate: 1-Chlorooctane	100 \$	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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y whether based in contract or bott shall be linked to Be unight paid by the clear to the durings and received by Cardbal which 30 days after completion of the applicable fairs, business interruption, base of use, or base of profile board by direct. It is advantation, business interruption, base of use, or base of profile board by direct. It is advantation of the applicable fairs, business interruption, base of use, or base of profile board by direct. It is advantation of the advantation of the advantation of the advantation of the advantation. The advantation of the advantation. The advantation of the advantation. The advantation of the advantation. The advantation of	Image: State     I	
Ves     No     AddT Phone #:       Ied. Please provide Email address:       Ied. Please provide Email address:       If Croc nove hSo lum, com       If Croc nove hSo lum, com       M Roberts are consolution       Standard       Bacteria (only) Sample Condition       Rush       Cool       Intact       Observed Temp. *c	TPH	ANALYSIS REQUEST

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September 15, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: MESA 8105 JV-P 013H

Enclosed are the results of analyses for samples received by the laboratory on 09/14/23 8:13.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 (32.06584,-103.62410)	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

### Sample ID: BH 01 A 4' (H234960-01)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	13.7	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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#### \*=Accredited Analyte

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 (32.06584,-103.62410)	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

#### Sample ID: BH 02 A 4' (H234960-02)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	512	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	148	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 (32.06584,-103.62410)	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

#### Sample ID: BH 03 A 4' (H234960-03)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 (32.06584,-103.62410)	Sample Received By:	Dionica Hinojos
Project Location:	ВТА		

#### Sample ID: BH 04 A 4' (H234960-04)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	128	16.0	09/14/2023	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*	10.5	10.0	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	756	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	153	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 (32.06584,-103.62410)	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

#### Sample ID: BH 05 A 4' (H234960-05)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	48.0	16.0	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	18.6	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	18.2	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 (32.06584,-103.62410)	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

#### Sample ID: BH 06 A 4' (H234960-06)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	GC-NC
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 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	320	16.0	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	389	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	81.5	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	105 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 ( 32.06584,-103.62410 )	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

#### Sample ID: BH 07 A 4' (H234960-07)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	48.0	16.0	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 ( 32.06584,-103.62410 )	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

#### Sample ID: BH 08 A 4' (H234960-08)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 :	% 49.1-14	8						

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 (32.06584,-103.62410)	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

#### Sample ID: BH 09 A 4' (H234960-09)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

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



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

Received:	09/14/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV-P 013H	Sampling Condition:	Cool & Intact
Project Number:	03C2012044 (32.06584,-103.62410)	Sample Received By:	Dionica Hinojos
Project Location:	BTA		

#### Sample ID: BH 10 A 4' (H234960-10)

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	09/14/2023	ND	1.95	97.4	2.00	3.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	2.82	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	1.91	95.5	2.00	4.08	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.71	95.2	6.00	4.84	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2023	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	09/14/2023	ND	189	94.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	187	93.3	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.6	% 49.1-14	8						

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



## **Notes and Definitions**

GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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 SM4500CI-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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

vived by OCD: 9/19/2023 8:50		Page 93 of
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Date: Of Cardinal, Ingurdies of induities and during a based upon any of the above stated transmoments of standards and the stated upon any of the above stated transmoments of states are directed and the stated upon any of the above stated transmoments of states are directed and the stated upon any of the above stated transmoments of states are directed and the state of the above stated transmoments of the above state and above stated transmoments of the above state and above stated transmoments of the above state and	Fax #: Project Owner: UV-P 013H -103.62410 Depth (feet) A (G)RAB OR (C)OMP. CONTAINERS CONTAI	aboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC Hadile Green
delinis based upon any of the above stated reasons or otherwise delinis based upon any of the above stated reasons or otherwise. All Results are en- hogreence en hogreence en	Company: B Ath: Keltby Ath: Keltby State: TX Zp Phone #: Fax #: Fax #: Phone #: Fax #: ACID/BASE: ICE / COOL OTHER : ACID/BASE: ICE / COOL OTHER : ACID/BASE: ICE / COOL OTHER : ACID/BASE: ICE / COOL	P.O. #
Inn, is subsidiates.     Innovember       Verbal Result:     Innovember       Verbal Result:     Innovember       All Result:     Innovember       hojvreen@ensolution.com     Cool       REMARKS:     Innover       Inncident #:     nCH1835547953       Innover     Standard       Innover     No       Innover     No       No     No       No     No	ALSO ASSO STREET	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
11 Phone #: Imail address: Lnn. Corn 1953 Pacteria (only) Sample Condition Cool Infact Observed Temp. °C No Corrected Temp. °C		AND ANALYSIS F

-Released to Imaging: 1/18/2024 9:03:34 AM

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# APPENDIX E

**NMOCD** Notifications

From:	Wells, Shelly, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/31/2023
Date:	Thursday, July 27, 2023 2:30:30 PM
Attachments:	image001.png image002.png
	image003.png image004.png

You don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

# [ \*\*EXTERNAL EMAIL\*\*]

Hi Hadlie,

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

Thank you,

Shelly

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

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, July 27, 2023 1:22 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/31/2023

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

All,

BTA anticipates collecting confirmation samples at the following location the week of July 31, 2023.

- Mesa 8105 JV-P 013H / NCH1835547953
  - Sampling Date: 8/3-4/2023 @ 9:00 AM MST

Thank you,



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



# APPENDIX F

Final C-141s

District I 1625 N. French Dr., Hobbs, NM 88240 District (I 811 S. First St., Artesia, NM 88210 District (II) 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	NCH1835547953
District RP	1RP-5289
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

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

# Location of Release Source

Latitude 32.0660734285\_

Longitude 103.624070083 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Mesa 8105 JV-P 013H (compressor)	Site Type well pad
Date Release Discovered 11/24/2018	API# (If applicable) 30-025-42849

Unit Letter	Section	Township	Range	County	
Р	1	265	32E	Lea	

Surface Owner: State Federal Tribal Private (Name:

# Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 10	Volume Recovered (bbls) 5
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
Malfunction on compre	essor caused slop tank to overflow.	

Received by OCD: 9/19/2023 8:50:27 AM

Earm C 141	State of New Mexico Oil Conservation Division			
Form C-141 Page 2		Incident ID	NCH1835547953	1
		District RP	1RP-5289	1
		Facility ID		1

	Application ID
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
X Yes 🗌 No	Yes 19.15.29.7 (A) defines 25 BBL or more a major release
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
No	

# **Initial Response**

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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Ben Grimes	Title: Production Manager
Signature: Benturs	Date: 1112612018
email: BGrimes@BTAOil.com	Telephone: <u>437-687-3753</u>
OCD Only	
Received by:	Date:

Received by OCD: 9/19/2023 8:50:27 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	<b>Page 100 of 1</b>	<i>13</i>
Incident ID	NCH835547953	
District RP	1RP-5289	
Facility ID		
Application ID		

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;55</u> (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 <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  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.

<b>Received by OCD: 9/19/2023 8:50:27 AM</b> Form C-141 Sta	ate of New Merrice		Page 101 of 113		
		Incident ID	NCH835547953		
Page 4 Oil C	Conservation Division	District RP	1RP-5289		
		Facility ID			
		Application ID			
regulations all operators are required to report public health or the environment. The accepta failed to adequately investigate and remediate	Date:9/2	form corrective actions for rele eve the operator of liability sho r, surface water, human health	ases which may endanger ould their operations have or the environment. In leral, state, or local laws		
OCD Only Received by:	Date•				

Page 6

**Oil Conservation Division** 

Incident ID	NCH835547953
District RP	1RP-5289
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kelton Beaird Title: \_Environmental Manager\_\_\_\_\_ Signature: \_\_\_\_////\_\_\_/ \_\_\_\_\_ Date: 9/20/2023 email: \_\_kbeaird@btaoil.com\_\_\_\_ 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: \_\_\_\_\_ Title: Printed Name:

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

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Incident ID	NAB1906552791
District RP	1RP-5383
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) NAB1906552791
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

# **Location of Release Source**

Latitude: 32.06584° Longitude: -103.62410°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P 13/18 Compressor	Site Type: Well Pad		
Date Release Discovered: 2/8/2019	API# (if applicable) Nearest well: Mesa 8195 JV-P #013H		
	API #30-025-42849		

Unit Letter	Section	Township	Range	County
Р	1	265	32E	Lea

Surface Owner: 🗌 State 🛛 Federal 🗌 Tribal 🔲 Private (

# Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 18 BBL	Volume Recovered (bbls) 18 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Due to an equipment failure on the compressor, oil was pushed over to the slop tank, which overflowed. The oil was recovered with a vacuum truck.

ceived by <sub>4</sub> QCD: 9/19/202. Srm C-141	3 8:50:27 AM state of New Mexico	Incident ID	Page 104 of
ige 2	Oil Conservation Division	District RP	NAB1906552791 1RP-5383
		Facility ID	1117-5365
		Application ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible part	ty consider this a major release?	
If YES, was immediate	notice given to the OCD? By whom? To whom? Wh	en and by what means (phone, e	email, etc)?
77	Initial Response party must undertake the following actions immediately unless they		d non 16 in interne
	lease has been stopped. as been secured to protect human health and the enviro	onment	
	ave been contained via the use of berms or dikes, abso		nt devices.
All free liquids and	recoverable materials have been removed and managed	d appropriately.	
If all the actions describe	ed above have <u>not</u> been undertaken, explain why:		
has begun, please attach	MAC the responsible party may commence remediation a narrative of actions to date. If remedial efforts has ent area (see $19.15.29.11(A)(5)(a)$ NMAC), please atta	ve been successfully completed	or if the release occurre
regulations all operators are public health or the enviror failed to adequately investi	ormation given above is true and complete to the best of my e required to report and/or file certain release notifications ar ment. The acceptance of a C-141 report by the OCD does n gate and remediate contamination that pose a threat to groun of a C-141 report does not relieve the operator of responsibil	nd perform corrective actions for re not relieve the operator of liability s adwater, surface water, human healt	leases which may endanger hould their operations have h or the environment. In

Printed Name: Bob Hall Title: Environmental Manager

Timed Name, DOD Han Thie. Litvitoninental wanager	
Signature: Boltfalf	Date: 2/22/2018
email: bhall@btaoil.com Telephone: 432-682-375	53
OCD Only Received by:	Date: 3/06/2019

Received by OCD: 9/19/2023 8:50:27 AM Form C-141 State of New Mexico

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NAB1906552791

District RP1RP-5383Facility IDApplication ID

Incident ID

# Site Assessment/Characterization

Oil Conservation Division

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;55</u> (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 <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

### <u>Characterization Report Checklist</u>: 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
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  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: 9/19/2023 8:50:27 AM Form C-141 State of New Mexico				Page 106 of 113	
				Incident ID	NAB1906552791
Page 4	Oil Conservation Divisio	n		District RP	1RP-5383
				Facility ID	
				Application ID	
regulations all operators are requ public health or the environment failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name:Kelton Beat Signature:	tion given above is true and complete to t nired to report and/or file certain release r The acceptance of a C-141 report by th and remediate contamination that pose a t C-141 report does not relieve the operator	notifications and the OCD does not threat to groundw of responsibility Title:Er Date:	perform co relieve the water, surfac y for compl nvironmen _9/20/202	rrective actions for rele operator of liability sho ce water, human health	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		_ Da	te:		

Page 6

Oil Conservation Division

Incident ID	NAB1906552791
District RP	1RP-5383
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kelton Beaird\_\_\_\_\_ Title: \_Environmental Manager\_\_\_\_\_ Signature: \_\_\_\_/// / // Date: 9/20/2023 email: \_\_kbeaird@btaoil.com\_\_\_\_ 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: \_\_\_\_\_ Title: Printed Name:

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 Page 108 of 113

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

Incident ID	NAB1906551740
District RP	1RP-5383
Facility ID	
Application ID	

)

# **Release Notification**

# **Responsible Party**

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) NAB1906551740
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

# **Location of Release Source**

Latitude: 32.06584° Longitude: -103.62410°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P 13/18 Compressor	Site Type: Well Pad
Date Release Discovered: 2/9/2019	API# (if applicable) Nearest well: Mesa 8195 JV-P #013H
	API #30-025-42849

Unit Letter	Section	Township	Range	County	
Р	1	265	32E	Lea	

Surface Owner: 🗌 State 🛛 Federal 🗌 Tribal 🗌 Private (

# Nature and Volume of Release

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

Crude Oil Volume	Volume Recovered (bbls) 18 BBL
Produced Water Volume	Volume Recovered (bbls)
Is the co produce	Yes No
Condensate Volume	Volume Recovered (bbls)
Vatural Gas Volume	Volume Recovered (Mcf)
Other (describe) Volume	Volume/Weight Recovered (provide units)

Cause of Release

The same equipment failure on the compressor, as occurred as a separate event and reported for 2/8/2019, pushed oil over to the slop tank and caused the tank to overflow. The oil was recovered with a vacuum truck.

23 8:50:27 AM		Page 109 of 1
		NAB1906551740
On Conservation Division		1RP-5383
		A D4000554404
	Application ID	pAB1906551401
	rty consider this a major release?	
notice given to the OCD? By whom? To whom? Wh	hen and by what means (phone, e	email, etc)?
*		d result in injury
has been secured to protect human health and the envir have been contained via the use of berms or dikes, abs recoverable materials have been removed and manage	orbent pads, or other containmer	ıt devices.
h a narrative of actions to date. If remedial efforts has ent area (see $19.15.29.11(A)(5)(a)$ NMAC), please atta formation given above is true and complete to the best of my re required to report and/or file certain release notifications a nment. The acceptance of a C-141 report by the OCD does igate and remediate contamination that pose a threat to groun	ave been successfully completed ach all information needed for cla v knowledge and understand that pur and perform corrective actions for rel not relieve the operator of liability sl ndwater, surface water, human healt	or if the release occurred osure evaluation. suant to OCD rules and leases which may endanger hould their operations have h or the environment. In
	notice given to the OCD? By whom? To whom? Wi Initial Response le party must undertake the following actions immediately unless the elease has been stopped. has been secured to protect human health and the envin have been contained via the use of berms or dikes, abs recoverable materials have been removed and manage bed above have <u>not</u> been undertaken, explain why: MAC the responsible party may commence remediated h a narrative of actions to date. If remedial efforts ha ent area (see 19.15.29.11(A)(5)(a) NMAC), please atta formation given above is true and complete to the best of my re required to report and/or file certain release notifications a mment. The acceptance of a C-141 report by the OCD does igate and remediate contamination that pose a threat to grou	Oil Conservation Division       Incident ID District RP Facility ID Application ID         If YES, for what reason(s) does the responsible party consider this a major release?         notice given to the OCD? By whom? To whom? When and by what means (phone, e         Initial Response         Le party must undertake the following actions immediately unless they could create a safety hazard that would         elease has been stopped.         has been secured to protect human health and the environment.         have been contained via the use of berms or dikes, absorbent pads, or other containmer recoverable materials have been removed and managed appropriately.

13

Printed Name: Bob Hall Title: Environmental Manager

stamante

Date: 2/22/2018 Belifill Signature:

Date: 3/6/2019

email: bhall@btaoil.com

Telephone: 432-682-3753

OCD Only

Received by:

Released to Imaging: 1/18/2024 9:03:34 AM

Received by OCD: 9/19/2023 8:50:27 AM Form C-141 State of New Mexico

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Oil Conservation Division

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District RP	1RP-5383
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;55</u> (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 <b>not</b> on an exploration, development, production, or storage site?	🖂 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\boxtimes$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  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.

eceived by OCD: 9/19/2023	8:50:27 AM State of New Mexico			Page 111 of 1
			Incident ID	NAB1906551740
lge 4	Oil Conservation Divisi	on	District RP	1RP-5383
			Facility ID	
			Application ID	
public health or the environmer failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name:Kelton Bea Signature:	uired to report and/or file certain release nt. The acceptance of a C-141 report by and remediate contamination that pose a C-141 report does not relieve the operat aird m	the OCD does not reliev a threat to groundwater, or of responsibility for c Title:Environ Date:9/20	ve the operator of liability sh surface water, human health	ould their operations have or the environment. In deral, state, or local laws
OCD Only				

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Oil Conservation Division

Incident ID	NAB1906551740
District RP	1RP-5383
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.

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following it	ems 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 nust 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 certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in	
Printed Name:Kelton Beaird	Title: _Environmental Manager	
Signature:	Date:9/20/2023	
email:kbeaird@btaoil.com	Telephone:432-312-2203	
OCD Only Received by:	Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.	
Closure Approved by: <u>Nelson Velez</u> Printed Name: Nelson Velez	Date: 01/18/2024	
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv	
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	ements. Soil impacts exceeding the reclamation red to meet 19.15.29.13D (1) NMAC once the site is	

no longer reasonably needed for production or subsequent drilling ops.

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	266743
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Creat By	d Condition	Condition Date
nvel	z Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	1/18/2024

Action 266743