# 🖻 ENSOLUM

October 2, 2023

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

#### Re: Closure Request Mesa 8105 JV-P #006 Incident Number nOY1814228433 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 #006 (Site), in accordance with an approved *Remediation Work Plan (Work Plan)* submitted June 9, 2023. The *Work Plan* proposed lateral and vertical delineation of the release. Based on the delineation activities completed and laboratory analytical results from the soil sampling events in accordance with the *Work Plan*, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nOY1814228433.

Details regarding the release, Site characterization, and proposed remediation activities can be referenced in the original *Work Plan* submitted on June 9, 2023. The *Work Plan* is included as Appendix A. On July 7, 2023, the New Mexico Oil Conservation Division (NMOCD) approved the *Work Plan* with the following conditions:

Workplan/Remediation Plan is approved with the following conditions: Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. This application does not include the C-141 Remediation Pages. A Remediation Plan/ Closure report should be submitted no later than 10/05/2023.

#### BACKGROUND

The Site is located in Unit B, Section 11, Township 26 South, Range 32 East, in Lea County, New Mexico (32.063978°, -103.643604°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 17, 2018, a produced water pipeline leak resulted in the release of approximately 80 barrels (bbls) of produced water. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 50 bbls of produced water were recovered. BTA reported the release immediately to the NMOCD via email and submitted a Release Notification Form C-141 (Form C-141) on May 17, 2018. The release was assigned Incident Number nOY1814228433.

BTA Oil Producers, LLC Closure Request Mesa 8105 JV-P #006

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Based on the results of the Site Characterization reported in the June 2023 *Work Plan* (Appendix A), 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: 20,000 mg/kg

### DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On August 11 and August 25, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. No visible indications of the historical release were observed during the Site visit. Four delineation soil samples (SS01 through SS04) were collected around the inferred release extent at a depth of 0.5 feet below ground surface (bgs) to assess the lateral extent of chemicals of concern (COCs) resulting from the produced water release. Boreholes (BH01 through BH04) were advanced via hand auger within the inferred release extent to assess the vertical extent of the release. The boreholes were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from the boreholes at depths ranging from 1-foot to 4 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following 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 SS01 through SS04 and all delineation samples collected from boreholes BH01 through BH04, collected within and around the inferred release extent, respectively, indicated all COC concentrations were compliant with the most stringent Table I 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 to assess for the presence or absence of impacted soil resulting from the May 2018 release of produced water. Laboratory analytical results for the delineation soil samples indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on laboratory analytical results, no impacted soil was identified, and no further remediation is required.



BTA Oil Producers, LLC Closure Request Mesa 8105 JV-P #006

No visible indications of the release were observed. Initial response efforts and/or natural attenuation appear to have mitigated potential impacts at this Site. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nOY1814228433. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included as Appendix F.

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

Sincerely, Ensolum, LLC

adie Streen

Hadlie Green Project Geologist

Daniel R. Moir, PG Senior Managing Geologist

cc: Kelton Beaird, BTA Bureau of Land Management

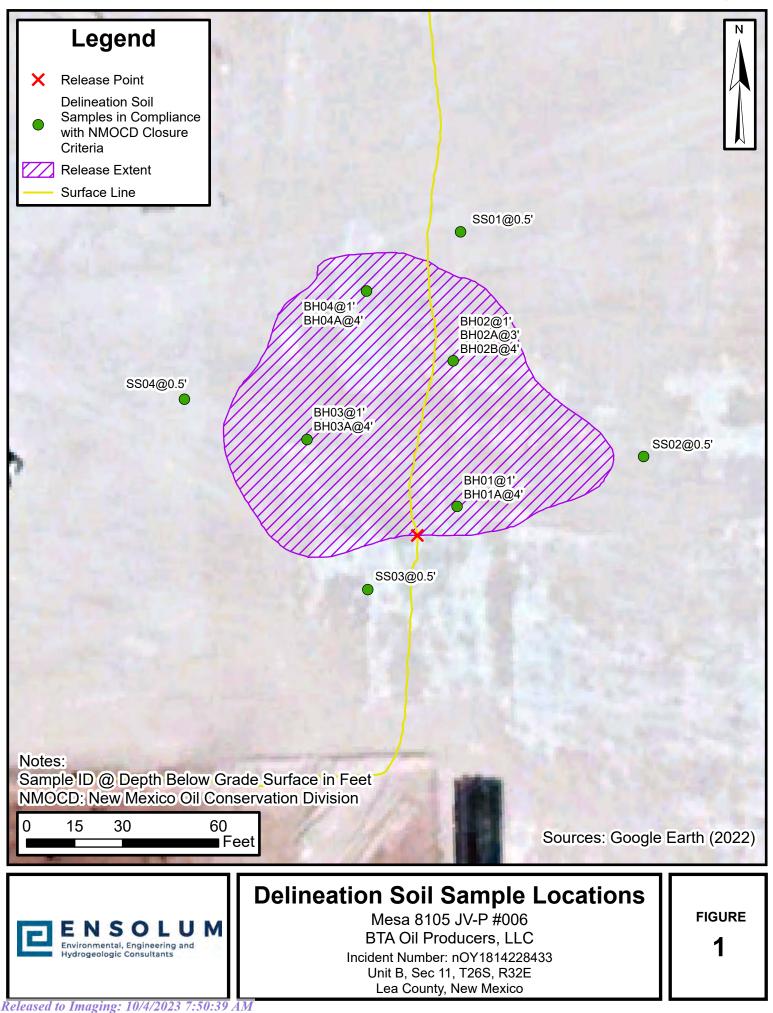
Appendices:

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





FIGURES





## TABLES

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# ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MESA 8105 JV-P #006 BTA Oil Producers, LLC Lea County, New Mexico									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
	Delineation Soil Samples									
SS01	08/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS02	08/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS03	08/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	08/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH01	08/11/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH01A	08/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02	08/11/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH02A	08/11/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
BH02B	08/11/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH03	08/11/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH03A	08/11/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH04	08/11/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH04A	08/11/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

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## APPENDIX A

Original Remediation Work Plan

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June 9, 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: Remediation Work Plan Mesa 8105 JV-P #006 Incident Number nOY1814228433 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared the following *Remediation Work Plan* (*Work Plan*) to propose assessment and soil sampling activities to confirm the presence or absence of impacted soil at the Mesa 8105 JV-P #006 (Site). The purpose of the Site assessment and soil sampling activities is to determine if impacted soil is present and if so, delineate the lateral and vertical extent of impacted soil resulting from a historical release of produced water at the Site.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 11, Township 26 South, Range 32 East, in Lea County, New Mexico (32.063978°, -103.643604°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 17, 2018, a produced water pipeline leak resulted in the release of approximately 80 barrels (bbls) of produced water. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 50 bbls of produced water were recovered. BTA reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Release Notification Form C-141 (Form C-141) on May 17, 2018. The release was assigned Incident Number nOY1814228433.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well is New Mexico Office of the State Engineer (NMOSE) well C-04549, located approximately 3,025 feet west of the Site. The well was drilled to a depth of 103 feet bgs during July 2021 and no groundwater was encountered. As such, depth to groundwater has been reasonably estimated to be greater than 100 feet bgs at the

BTA Oil Producers, LLC Remediation Work Plan Mesa 8105 JV-P #006H

Site. 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 riverine, located approximately 880 feet east-southeast 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 underlain by stable 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 for the following chemicals of concern (COCs):

- 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: 20,000 mg/kg

#### SITE ASSESSMENT AND DELINEATION ACTIVITIES

On May 30, 2023, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations; however, a drilling rig was actively operating on the pad, which obstructed Ensolum personnel from gathering analytical delineation samples due to health and safety concerns as well as the physical impedance of the drilling equipment relative to the release extent location. As such, no initial Site assessment or delineation soil samples were collected. The approximate surface area of the release was estimated from the perimeter of surficial visual impacts and mapped with a handheld Global Positioning System (GPS) unit. The release extent is shown on Figure 2. A photographic log of the Site is included in Appendix B.

#### PROPOSED REMEDIATION WORKPLAN

A total of approximately 30 bbls of produced water was unrecovered following the release at the Site on May 17, 2018. Delineation soil sampling could not be completed at the Site on May 30, 2023, due to the presence of an actively operating drilling rig on the pad. Surficial visual staining was mapped out to document the release extent. The surface area of the release is estimated to be 7,880 square feet with a perimeter of approximately 342 feet. BTA requests approval to complete the following delineation activities once drilling operations are complete and the release area can be accessed:

Initial Site assessment sampling in order to confirm the presence or absence of impacted soil, which will include horizontally and vertically delineating the release extent. Ensolum will advance representative hand auger or backhoe borings within the release extent and advance them until 1-foot bgs or until field screening results indicate concentrations of COCs in soil are in compliance with the Site Closure Criteria. Two soil samples will be collected from each of the soil borings within the release extent: the soil sample exhibiting the highest field screening results and the terminus of the soil boring. Additional soil samples will be collected at 0.5 feet bgs outside of the release extent to confirm the lateral definition of the release. Proposed soil sample locations are depicted on Figure 2.



BTA Oil Producers, LLC Remediation Work Plan Mesa 8105 JV-P #006H

- Delineation samples will be field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and screened for chloride utilizing Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips.
- Soil samples will be 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 will be transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following 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 Standard Methods Committee (SMC) Standard Method (SM) SM4500.

BTA will begin the delineation activities described above within 90 days of the date of approval of this *Work Plan* by the NMOCD. If laboratory analytical results indicate concentrations of all COCs are in compliance with the Site Closure Criteria, a Closure Request will be prepared and submitted to the NMOCD for concurrence. If laboratory analytical results do indicate the presence of impacted soil, BTA will submit a *Revised Remediation Work Plan (RRWP)* to outline additional remedial actions to address those findings.

BTA believes the scope of work described above meets the requirements set forth in 19.15.29 NMAC and is protective of human health, the environment, and groundwater. As such, BTA respectfully requests approval of this *Work Plan* from NMOCD.

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

Sincerely, Ensolum, LLC

Wer Winhut

Wes Weichert, PG Project Geologist

Monissey

Tacoma Morrissey Senior Geologist

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

Appendices:

Figure 1Site Location MapFigure 2Release Extent and Proposed Soil Sample LocationsAppendix AReferenced Well RecordsAppendix BPhotographic LogAppendix CForm C-141

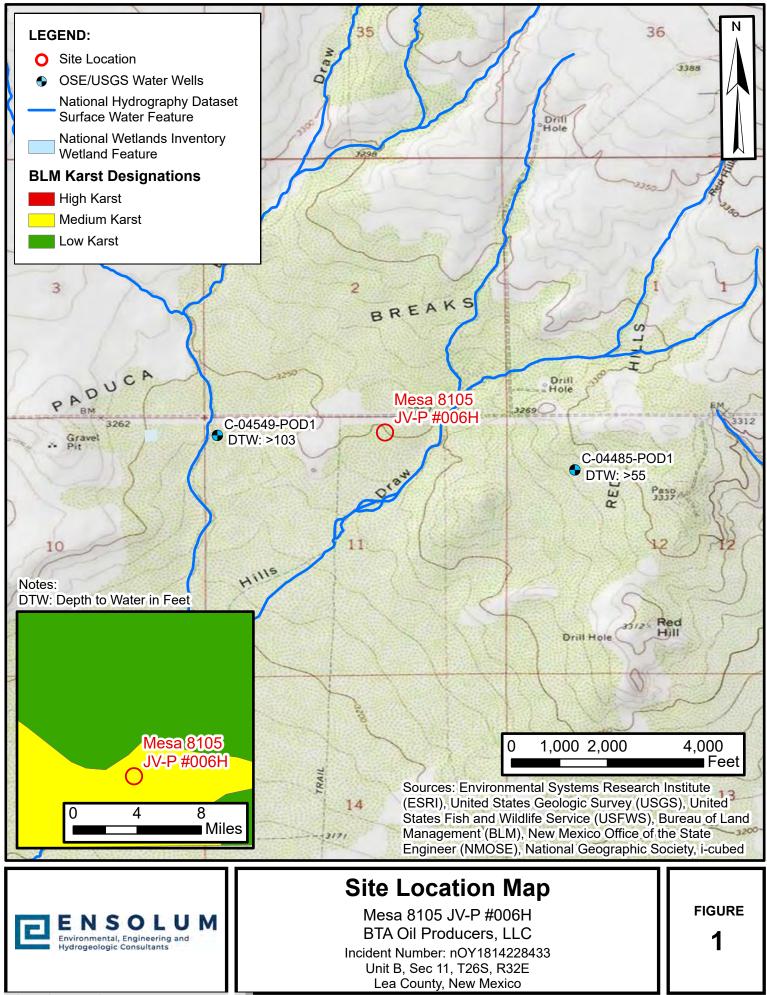




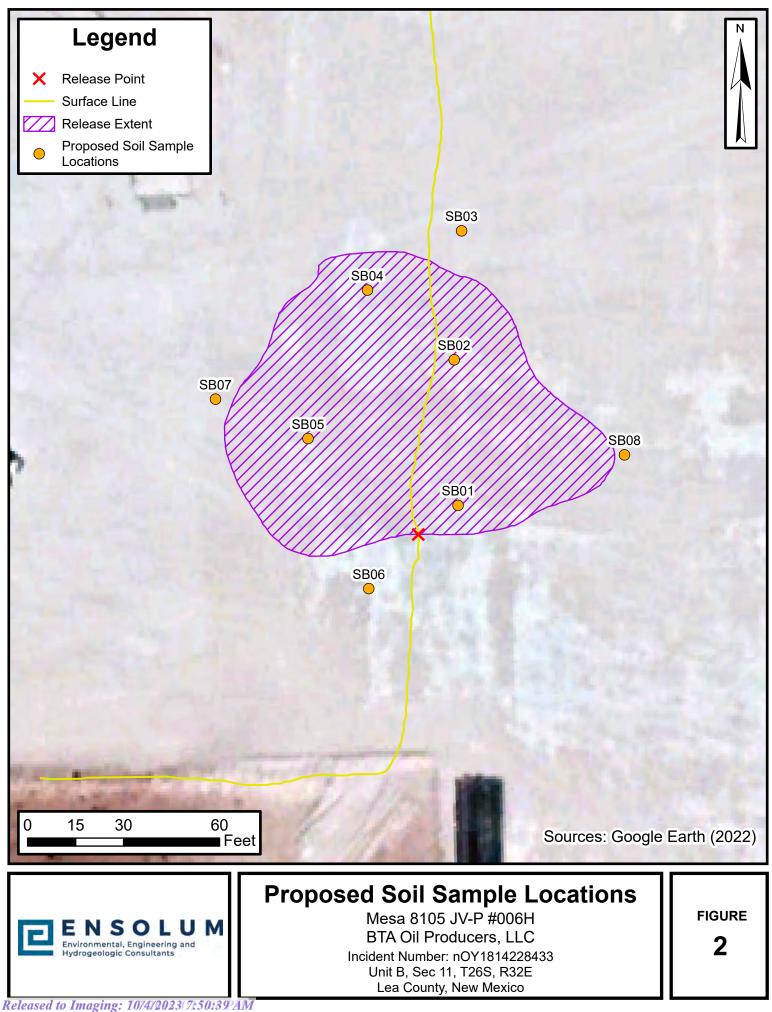
FIGURES

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## APPENDIX A

Referenced Well Records



# WELL RECORD & LOG

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### **OFFICE OF THE STATE ENGINEER**

www.ose.state.nm.us

NOI	OSE POD NO POD1 (N	(W-1)			WELL TAG ID NO. n/a		-	OSE FILE NO( C-4549	<b>S)</b> .		
LOCAT	WELL OWN BTA Oil F							PHONE (OPTI	ONAL)	<u></u> "	
GENERAL AND WELL LOCATION	well own 104 S. Pec		NG ADDRESS					CITY Midland		state TX 79701	ZIP
<b>g</b>	WELL DEGREES MINUTES SECONDS										
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	NW NW Sec. 11 T26S R32E										
	LICENSE NO		NAME OF LICENSED						NAME OF WELL DR	ILLING COMPANY	
					Atkins Eng	ineering Associates,	Inc.				
	DRILLING STARTED         DRILLING ENDED         DEPTH OF COMPLETED WELL (FT)         BORE HOLE DEPTH (FT)         DEPTH WATER FIRST ENCOUNTERED (FT)           07/14/2021         07/14/2021         temporary well material         103         n/a					)					
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DRMA	DRILLING METHOD: ROTARY HAMMER CABLE TOOL I OTHER - SPECIFY: Hollow Stem Auger										
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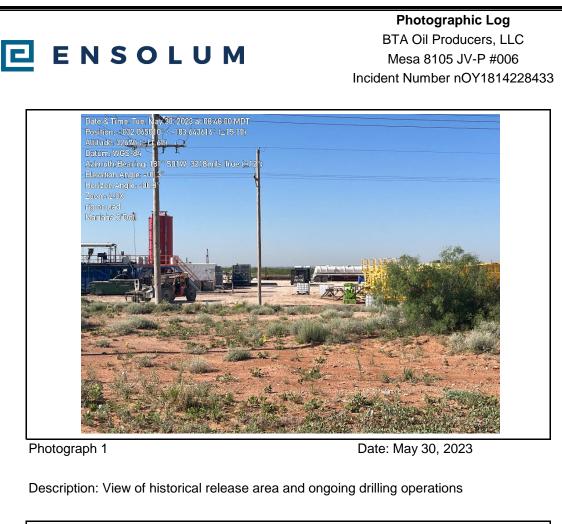
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SIG	Jack Atkins Jackie D. Atkins 07/29/2021											
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# APPENDIX B

Photographic Log





Description: View of historical release area and ongoing drilling operations



## APPENDIX C

Form C-141

District II     Energy Min       1000 Rio Brazos Road, Aztec, NM 87410     Oil C       District IV     1220	te of New Mexico erals and Natural Resources onservation Division South St. Francis Dr. hta Fe, NM 87505 Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.					
	ation and Corrective Action					
Kerende I vorme.	OPERATOR Initial Report Final Report					
Name of Company BTA OIL PRODUCERS, LLC	Contact KAYLA MCCONNELL					
Address 104 SOUTH PECOS, MIDLAND TX, 79701	Telephone No. 432-682-3753					
Facility Name MESA 8105 JV-P #6	Facility Type PRODUCED WATER PIPELINE					
Surface Owner FEDERAL Mineral O	wner FEDERAL API No. 30-025-42844					
LOCA	TION OF RELEASE					
Unit LetterSectionTownshipRangeFeet from theB1126S32E330	North/South Line NORTH         Feet from the 2198         East/West Line EAST         County LEA					
Latitude 32.063978	Longitude -103.643604 NAD83					
NAT	URE OF RELEASE					
Type of Release PRODUCED WATER	Volume of Release 80 BBL Volume Recovered 50 BBL					
Source of Release PIPELINE BURST Was Immediate Notice Given?	Date and Hour of Occurrence 5/17 Date and Hour of Discovery 5/17/18 6 AM If YES, To Whom? Olivia Yu - NMOCD					
Yes No Not Red						
By Whom? Kayla McConnell	Date and Hour 5/17/18 9:45 am					
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.					
Describe Cause of Problem and Remedial Action Taken.* Pipeline release carrying produced water was discovered early morning by	<b>By Olivia Yu at 7:51 am, May 22, 2018</b> field foremen. Vacuum truck was called in for cleanup, recovered estimated 50 bbl.					
Describe Area Affected and Cleanup Action Taken.* Vacuum truck was called in for cleanup, environmental group will be onsite I hereby certify that the information given above is true and complete	ete to the best of my knowledge and understand that pursuant to NMOCD rules and					
public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and re	lease notifications and perform corrective actions for releases which may endanger t by the NMOCD marked as "Final Report" does not relieve the operator of liability mediate contamination that pose a threat to ground water, surface water, human health eport does not relieve the operator of responsibility for compliance with any other					
Signature: Kanta Melanul	OIL CONSERVATION DIVISION					
Signature: Kayla Melanner	Approved by Environmental Specialist:					
Printed Name: Kayla McConnell						
Title: Regulatory Analyst	Approval Date: 5/22/2018 Expiration Date:					
E-mail Address: kmcconnell@btaoil.com	Conditions of Approval: Attached					
Date: 5/17/2018 Phone: 575-393-3117	see attached directive					
* Attach Additional Sheets If Necessary						
	1RP-5067 nOY1814228433					
	pOY1814229961					

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nOY1814228433
District RP	1RP-5067
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

Responsible Party BTA Oil Producers, LL	OGRID 5380
Contact Name Kelton Beaird	Contact Telephone 432-312-2203
Contact email kbeaird@btaoil.com	Incident # (assigned by OCD): nOY1814228433
Contact mailing address 104 S. Pecos St. Midland, TX 79701	

### **Location of Release Source**

Latitude 32.063978

Longitude <u>-103.643604</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P #006	Site Type: Oil & Gas Production
Date Release Discovered: 05/17/2018	API# (if applicable): 30-025-42844

Unit Letter	Section	Township	Range	County
В	11	26S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: \_\_\_\_\_

### Nature and Volume of Release

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

Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
Produced Water	Volume Released (bbls): 80	Volume Recovered (bbls): 50
	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)
-	duced water pipeline release was discovered early morn vered an estimated 50 bbls.	ing by the field foreman. A vacuum truck was called

Page	2
1 uge	-

### Oil Conservation Division

Incident ID	nOY1814228433
District RP	1RP-5067
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	Release greater than 25.0 bbls
🛛 Yes 🗌 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, immediate notice wa	s given by Kayla McConnell (BTA) to Olivia Yu (NMOCD) and Shelly Tucker (BLM on May 17, 2018
at 9:45 am.	

### **Initial Response**

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

 $\square$  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 <u>not</u> been undertaken, explain why: N/A

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: <u>Kelton Beaird</u>	Title: <u>Environmental Manager</u>
Signature:	Date:
email: <u>kbeaird@btaoil.com</u>	Telephone: <u>432-321-2203</u>
OCD Only	
Received by:	Date:

Received by OCD: 10/3/2023/2720:08 PM Form C-1+1 State of New Mexico

Page 3

Oil Conservation Division

	Page 24 of 7	0
Incident ID	nOY1814228433	
District RP	1RP-5067	
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;100 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

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

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

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

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

Received by OCD: 10/3/2023/25202084PM

Form C-141	State of New Mexico	Incident ID	nOY1814228433
Page 2	Oil Conservation Division	District RP	1RP-5067
		Facility ID	
		Application ID	
Was this a major	If YES, for what reason(s) does the responsible part	rty consider this a major release?	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMÁC?	Release greater than 25.0 bbls
🛛 Yes 🗌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, immediate notice wa at 9:45 am.	s given by Kayla McConnell (BTA) to Olivia Yu (NMOCD) and Shelly Tucker (BLM on May 17, 2018

### **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  $\underline{not}$  been undertaken, explain why: N/A

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: Kelton Beaird Signature:	Title: <u>Environmental Manager</u> Date: <u>6-9-23</u> Telephone: <u>432-321-2203</u>
OCD Only Received by: Jocelyn Harimon	Date:06/09/2023

Received by OCD: 10/3/2023/25202084PM

Form C-141 Page 4	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	nOY1814228433 1RP-5067
regulations all operators a public health or the enviro failed to adequately invest	$\mathcal{I}$	ifications and perform co OCD does not relieve the eat to groundwater, surfa responsibility for compl Title: <u>Environmen</u> Date: <u><u>6-9-2</u></u>	prrective actions for rele operator of liability sh ce water, human health iance with any other fe	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:	Jocelyn Harimon	Date:06,	/09/2023	

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	225770
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

	-	
Created By	Condition	Condition Date
jharimon	• Workplan/Remediation Plan is approved with the following conditions: Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. This application does not include the C-141 Remediation Pages. A Remediation Plan/ Closure report should be submitted no later than 10/05/2023.	7/7/2023

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Action 225770



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 8/11/2023
				~	<b>•</b>			Site Name: Mesa 8105 JVP #00	
<b>E</b> E N S O L U M							Incident Number: n0Y1814228433		
							Job Number: 03C2012050	-35	
			0610		SAMPLING	106		Logged By: M. O'Dell	Method: Hand Auger
Coord	linates: 32			-		100		Hole Diameter: 6"	Total Depth: 4'
					ith HACH Ch	loride Test 9	strins and	PID for chloride and vapor, resp	
			-					asurements done with a + 40%	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic I	Descriptions
D	1,389	0.0	N		ـــــــــــــــــــــــــــــــــــــ	L - 1 - 2	SP	Sandwith Caliche. Reddis to fine grained, poorly gra Sand. Reddish brown, ver	aded, dry.
D	1,193	0.0	N		-	2	35	to fine grained, poorly gra	aded, dry.
D	1,464	0.0	N	BH03	4	4	Useday		
D 1.464 0.0 N BH03 4 4 4 Total Depth @ 4' bgs. Hand auger refusal at 4' bgs.									

								Sample Name: BH02	Date: 8/11/2023
	_			~	<b>•</b>			Site Name: Mesa 8105 JVP #006	
E N S O L U M								Incident Number: nOY181422843	
							Job Number: 03C2012050		
		итног	OGIO		SAMPLING			Logged By: M. O'Dell	Method: Hand Auger
Coord	linates: 32			-				Hole Diameter: 6"	Total Depth: 4'
					ACH Chloride	Test Strips an	d PID for cl	nloride and vapor, respectively. Chlori	
								% correction factor.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
D	1,389 1,193	0.0 0.0	N				SP SP	Sandwith Caliche. Reddish to fine grained, poorly grac Sand. Reddish brown, very to fine grained, poorly grac	ded, drv.
D	1,193 1,464	0.0	N N	вноз	- - - 4 _	3 4			
D 1,464 0.0 N BH03 4 4 4 Total Depth @ 4' bgs. Hand auger refusal at 4' bgs.									

								Sample Name: BH03	Date: 8/11/2023	
		C	N	2			<b>N</b> A	Site Name: Mesa 8105 JVP #		
E N S O L U M								Incident Number: nOY1814228433		
							Job Number: 03C2012050			
		LITHOL	OGI			Logged By: M. O'Dell	Method: Hand Auger			
Coordinates: 32.064114, -103.643698								Hole Diameter: 6"	Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements done with a + 40% correction factor.							hloride test performed with 1:4			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologi	c Descriptions	
D	1,389 2,145	0.0	N		- - - - -		SP	Sand. Reddish brown, v fine grained, poorly gra		
D	1,193 2,464	0.0	N	BH03	- - - - - 4	- - - - - - - - - - - - - - - - - - -				
D     2,464     0.0     N     BH03     4     4       Total Depth @ 4' bgs. Hand auger refusal at 4' bgs.										

								Sample Name: BH02	Date: 8/11/2023	
				~	<b>•</b>			Site Name: Mesa 8105 JVP #006		
E N S O L U M							Incident Number: nOY1814228433			
								Job Number: 03C2012050		
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell	Method: Hand Auger	
Coordinates: 32.064242, -103.634636								Hole Diameter: 6"	Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for cl dilution factor of soil to distilled water. All chloride measurements done with a + 40						nloride and vapor, respectively. Chlor				
unution			.iiieu v	vater. All chi		ements done				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions	
D	1,389	0	N		1 - - - - -		SP	Sand. Reddish brown, very poorly graded, dry.	y fine to fine grained,	
D	1,193	0	N			  - 3				
D	1,464	0	Ν	BH03	4	4	SP	Sand with Caliche. Reddish to fine grained, poorly gra	n brown, very fine ded, dry.	
				Тс	otal Depth	@ 4' bgs.	Hand au	uger refusal at 4' bgs.		



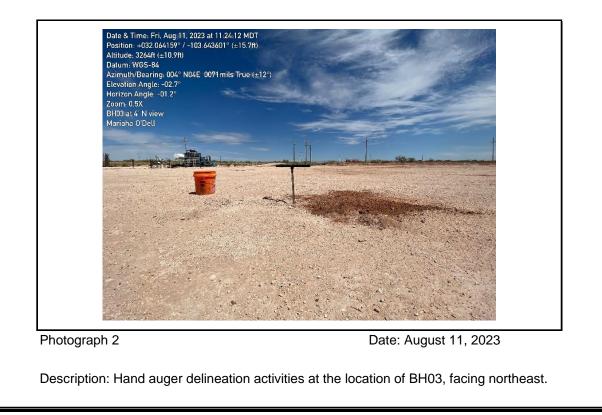
# APPENDIX C

Photographic Log

Released to Imaging: 10/4/2023 7:50:39 AM



Description: Hand auger delineation activities at the location of BH02, facing southwest.





### APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 17, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: MESA 8105 JVP #006H

Enclosed are the results of analyses for samples received by the laboratory on 08/14/23 11:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: SS 01 0.5' (H234365-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.8	200	1.72	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	164	82.2	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



00/11/2022

## Analytical Results For:

	ENSOLUM	
	HADLIE GREEN	
	3122 NATIONAL PARKS HWY	/
	CARLSBAD NM, 88220	
	Fax To:	
08/14/2023		Sampling Date:

Receiveu.	00/14/2023	Sampling Date.	00/11/2025
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: SS 02 0.5' (H234365-02)

Docoivod:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	256	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.8	200	1.72	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	164	82.2	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	97.7	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	6 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: SS 03 0.5' (H234365-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: SS 04 0.5' (H234365-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 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	96.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Huge NoTE: Linking and Damuges. Cardinals in the set and a minimum strain without and any data a strain without any data a strain without and any data a strain without any data a strain without any data a strain without any data and any data any data and any data any data any data and any data any data	International Control Con
Yes □ No  Addi ed. Please provide En ed. P	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST       PO. R
Phone #: all address: JVM , M0 dt II & EnSOI U.M. OM V1 8 14 228433 Bacteria (only) Sample Condition Cool Infact Observed Temp. °C	REQUEST



August 17, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: MESA 8105 JVP #006H

Enclosed are the results of analyses for samples received by the laboratory on 08/14/23 11:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: BH 04 1' (H234366-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 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	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM
	HADLIE GREEN
	3122 NATIONAL PARKS HWY
	CARLSBAD NM, 88220
	Fax To:
08/14/2023	Sampling Date:

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: BH 04A 4' (H234366-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 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	64.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.4	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: BH 02 1' (H234366-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	80.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM
	HADLIE GREEN
	3122 NATIONAL PARKS HWY
	CARLSBAD NM, 88220
	Fax To:
08/14/2023	Sampling Date:

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: BH 02A 3' (H234366-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	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	288	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: BH 02B 4' (H234366-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 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	176	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: BH 03 1' (H234366-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MESA 8105 JVP #006H

BTA (32.063978-103.643604)

03C2012050

Sampling Condition:

Sample Received By:

08/11/2023

Cool & Intact

Tamara Oldaker

Soil

### Analytical Results For:

	ENSOLUM	
	HADLIE GREEN	
	3122 NATIONAL PARKS H	WY
	CARLSBAD NM, 88220	
	Fax To:	
08/14/2023		Sampling Date:
08/17/2023		Sampling Type:

Sample ID: BH 03A	4' (H234366-07)

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	89.5 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/14/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Tamara Oldaker
Project Location:	BTA ( 32.063978-103.643604 )		

#### Sample ID: BH 01 1' (H234366-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Labo	ratories			CHAIN-OF-CUS	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
101 East Mai (576) 393-2	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476				
1 m	c		BILL TO		ANAI VSIS DECIDENT
Project Manager: Hadlie C	Green	9	P.O. 养		
Address: (001 N N	arienfield A.	# 400	company: BTA ()		
city: Midland TX	State: TX Zip:	TOLOL	J	Realind	
17	8895 Fax #:		2	Dernst	
Project #: 0302012050	O Project Owner:	Q	diand		
Project Name: MPSA 8	8105 JVP #000H	St	X	101	
Project Location: 32 .003	078-103.	1043 UO4 Ph	*		
aviat	Da O'Dell		Fax #:		
FOR LAB USE ONLY		Contraction of Contractory	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(feet) RAB OR (C)(	ONTAINERS OUNDWATE STEWATER L IDGE HER :	D/BASE: / COOL HER :	DION PH DTEX	
1 BH04		G X X S O S	< 10		
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S BHOZ			X	10:15	
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PLEASE NOTE: Liability and Damages, Cardinal's liability and dis					
strayser. All claims including those for negligence and any oth service. In no event shall Cardhul be Bable for incidental or ean affiliates or successions arising out of or related to the parforman	puental puental of servi	Inducencer shall be deemed waiwed unless made is writing and received by Carolinate annous pour competence of the ap demages, including sufficient finiteliation, business interruptions, loss of tens, or bas of profile business business is a business, and the start of the approximation of the approximation of the start of the sta	and received by Cardinal within 30 days after completion of the s.f.coss of une, or loss of profile bourzed by Citent, is s.f.coss of une, or loss of profile bourzed by Citent, is but is bared unon may of the obeam stated second at attack.	ompledion of the applicable nt, its eubuidiaries,	
AND DO	Date: 14/23 Reci D1/24/23 Reci	A Samara Milating	Personal and a second second	Verbal Result: D Yes C All Results are emailed. Plea Mg Yeen @ ensolu	emailed. Please provide Email address: @ ensolum.com, modell@ensolum.com
Kelinquished By:		Received By:		Ĩ.2	0
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C 6.0 Corrected Temp. "C	Sample Condition Cool Iffiad	CHECKED BY: T	Turnaround Time: Stan Russ Thermonster ID #449- #//-	Standard Bacteria (only) Sample Condition Rush Cool Infact Observed Temp. °C
	† Cardinal cannot	accept verbal changes.	. Please email chang	keene@	nailabsnm.com
¥					

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September 05, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA 8105 JV P #006H

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/29/2023	Sampling Date:	08/25/2023
Reported:	09/05/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JV P #006H	Sampling Condition:	Cool & Intact
Project Number:	03C2012050	Sample Received By:	Shalyn Rodriguez
Project Location:	32.063978,-103.643604		

#### Sample ID: BH 01 A 4' (H234684-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/30/2023	ND	1.76	87.9	2.00	0.722	
Toluene*	<0.050	0.050	08/30/2023	ND	1.78	89.2	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.84	91.9	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.40	90.0	6.00	2.13	
Total BTEX	<0.300	0.300	08/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

fe	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 : Ensolum, LLC :: Hadlie Green Marienfeld Street, Suite 400 State: TX Zip: 79701 Fax #:	BILL TO P.O. #: Company: BTA Oil Attn: Kelton Beaird	ANALYSIS REQUEST
Phone #: 432-557-8895		Address: 104 S Pecos St	
Project #: 03C2012050	Project Owner:	City: Midland	
Project Name: Mesa 8105 JV P #006H		State: TX Zip: 79701	
Project Location: 32.063978,-103.643604	43604	432	
Sampler Name: Peter Van Patten		Fax #:	
FOR LAB USE OWLY	Depth R (C)OMP. NERS VATER		
×	(Teet)	ACID/BAS ICE / COC OTHER : DATE	TP
1 STOLA	-	058 22:52:2 N	× × ×
		-	
		1-2-	
	100		
PLEASE NOTE: Lability and Damagess Cardinal's lability and of			
analyses. All claims including those for negligence and any of service. In no event shall Cardinal be liable for incidental or co affiliates or successors arising out of or related to the performs	cause whatsoever shall be deemed equential damages, including without of services hereunder by Cardinal		cient for the effor of the applicable subsidiaries,
Relinquished By: For a For	Re	$\geq$	Veroal Result: □ Yes & No  Add'I Phone #: All Results are emailed. Please provide Email address:   れなでののののようにいれ、COM
Relinquished By:	Received By:	ALL OFFE	
Delivered By: (Circle One)		CHECKED BY:	X
Sampler - UPS - Bus - Other	Cool Intact	(Initials)	ŧ

Received by OCD: 10/3/2023 2:20:08 PM

# Page 4 of 4

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# APPENDIX E

**NMOCD** Notifications

Released to Imaging: 10/4/2023 7:50:39 AM

From:	Kelton Beaird
To:	Tacoma Morrissey; Hadlie Green
Subject:	FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 225770
Date:	Monday, July 10, 2023 8:53:45 AM

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

Kelton Beaird Environmental Manager BTA Oil Producers 104 S. Pecos Midland, TX 79701 432-312-2203

From: Nathan Sirgo <nsirgo@btaoil.com>
Sent: Friday, July 7, 2023 5:33 PM
To: Kelton Beaird <KBeaird@btaoil.com>
Subject: Fwd: The Oil Conservation Division (OCD) has approved the application, Application ID: 225770

# Nathan Sirgo

BTA Oil Producers (432) 682-3753

Begin forwarded message:

From: OCDOnline@state.nm.us Date: July 7, 2023 at 5:15:30 PM CDT To: Nathan Sirgo <<u>nsirgo@btaoil.com</u>> Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 225770

\*\*\*\*\* EXTERNAL EMAIL - Please use caution and **DO NOT** open attachments or click links from unknown or unexpected emails. \*\*\*\*\*

To whom it may concern (c/o BTA ENV for BTA OIL PRODUCERS, LLC),

The OCD has approved the submitted *Application for administrative approval of* a release notification and corrective action (C-141), for incident ID (n#) nOY1814228433,

with the following conditions:

• • Workplan/Remediation Plan is approved with the following conditions: Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. This application does not include the C-141 Remediation Pages. A Remediation Plan/ Closure report should be submitted no later than 10/05/2023.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Jocelyn Harimon **Environmental Specialist** 575-748-1283 Jocelyn.Harimon@emnrd.nm.gov

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

From:	Wells, Shelly, EMNRD		
To:	Hadlie Green		
Cc:	Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD; Hamlet, Robert, EMNRD; Hall, Brittany, EMNRD; Harimon, Jocelyn, EMNRD		
Subject:	RE: [EXTERNAL] BTA - Sampling Notification - Week of 08/07/2023		
Date:	Thursday, August 3, 2023 2:47:10 PM		
Attachments:	image001.png		
	image002.png		
	image003.png		
	image004.png		

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

Hi Hadlie,

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

Thank you,

Shelly

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

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, August 3, 2023 1:36 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 08/07/2023

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

All,

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

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

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

Thank you,



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



# APPENDIX F

Final C-141

Released to Imaging: 10/4/2023 7:50:39 AM

 $\mathbf{t}$ 

District II Energy Mi	tate of New Mexico Inerals and Natural Resources Form C-141 Revised April 3, 2017			
District IV 1220	Conservation Division 0 South St. Francis Dr. Santa Fe, NM 87505			
	ication and Corrective Action			
	OPERATOR   Initial Report  Final Report			
Name of Company BTA OIL PRODUCERS, LLC	Contact KAYLA MCCONNELL			
Address 104 SOUTH PECOS, MIDLAND TX, 79701	Telephone No. 432-682-3753			
Facility Name MESA 8105 JV-P #6	Facility Type PRODUCED WATER PIPELINE			
Surface Owner FEDERAL Mineral O	Owner FEDERAL API No. 30-025-42844			
	ATION OF RELEASE			
Unit LetterSectionTownshipRangeFeet from theB1126S32E330	North/South Line NORTHFeet from the 2198East/West Line EASTCounty LEA			
Latitude 32.063978	Longitude -103.643604 NAD83			
NATURE OF RELEASE				
Type of Release PRODUCED WATER	Volume of Release 80 BBL Volume Recovered 50 BBL			
Source of Release PIPELINE BURST Was Immediate Notice Given?	Date and Hour of Occurrence 5/17 Date and Hour of Discovery 5/17/18 6 AM If YES, To Whom? Olivia Yu - NMOCD			
X Yes No Not Re				
By Whom? Kayla McConnell	Date and Hour 5/17/18 9:45 am			
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.				
By Olivia Yu at 7:51 am, May 22, 2018           Describe Cause of Problem and Remedial Action Taken.*           Pipeline release carrying produced water was discovered early morning by field foremen. Vacuum truck was called in for cleanup, recovered estimated 50 bbl.				
Describe Area Affected and Cleanup Action Taken.* Vacuum truck was called in for cleanup, environmental group will be onsite 5/18/18 to evaluated the area.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.				
Signature: Kayla Melanul	OIL CONSERVATION DIVISION			
Printed Name: Kayla McConnell	Approved by Environmental Specialist:			
Title: Regulatory Analyst	Approval Date: 5/22/2018 Expiration Date:			
E-mail Address: kmcconnell@btaoil.com	Conditions of Approval: Attached			
Date: 5/17/2018 Phone: 575-393-3117	see attached directive			
* Attach Additional Sheets If Necessary	1RP-5067 nOY1814228433			
	pOY1814229961			

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 65 of 70

Incident ID	nOY1814228433
District RP	1RP-5067
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party BTA Oil Producers, LL	OGRID 5380	
Contact Name Kelton Beaird	Contact Telephone 432-312-2203	
Contact email kbeaird@btaoil.com	Incident # (assigned by OCD): nOY1814228433	
Contact mailing address 104 S. Pecos St. Midland, TX 79701		

# **Location of Release Source**

Latitude 32.063978

Longitude <u>-103.643604</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P #006	Site Type: Oil & Gas Production
Date Release Discovered: 05/17/2018	API# (if applicable): 30-025-42844

Unit Letter	Section	Township	Range	County
В	11	26S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: \_\_\_\_\_

# Nature and Volume of Release

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

Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
Produced Water	Volume Released (bbls): 80	Volume Recovered (bbls): 50
	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)
-	oduced water pipeline release was discovered early morr vered an estimated 50 bbls.	ning by the field foreman. A vacuum truck was called

Page 2

# **Oil Conservation Division**

Incident ID	nOY1814228433
District RP	1RP-5067
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	Release greater than 25.0 bbls
🖾 Yes 🗌 No	
If VFS, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	as given by Kayla McConnell (BTA) to Olivia Yu (NMOCD) and Shelly Tucker (BLM on May 17, 2018
	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: N/A

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: <u>Kelton Beaird</u>	Title: <u>Environmental Manager</u>
Signature:	Date:
email: <u>kbeaird@btaoil.com</u>	Telephone: <u>432-321-2203</u>
OCD Only	
Received by:	Date:

Page 3

Oil Conservation Division

	Page 67 of	70
Incident ID	nOY1814228433	
District RP	1RP-5067	
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;&gt;100 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

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

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

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

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

Received by OCD: 10/3/2023 2:	:20:08 PM State of New Mexico			Page 68 of 70
Form C-141			Incident ID	nOY1814228433
Page 4	Oil Conservation Division		District RP	1RP-5067
			Facility ID	
			Application ID	
regulations all operators are requi public health or the environment. failed to adequately investigate ar	( )	fications and perform co OCD does not relieve the eat to groundwater, surfa	prrective actions for rele e operator of liability sho ce water, human health iance with any other feo tal Manager	ases which may endanger ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	nOY1814228433
District RP	1RP-5067
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. Title: \_Environmental Manager\_\_\_\_\_ Printed Name: Kelton Beaird\_\_\_\_ Signature: \_\_\_\_\_ //// \_\_\_\_ ) \_\_\_\_\_ Date: 10-3-23 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. Juttan Hall \_\_\_\_\_ Date: 10/4/2023 Closure Approved by: Title: Environmental Specialist Printed Name: Brittany Hall

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	271947
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created	Condition	Condition	
By		Date	
bhall	None	10/4/2023	

CONDITIONS

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Action 271947