

December 14, 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

Harroun East Tank Battery Incident Number nAPP2204151142

**Eddy County, New Mexico** 

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Harroun East Tank Battery (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil resulting from a flare fire and crude oil release at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2204151142.

### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 34, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.28584°, -104.00593°) and is associated with oil and gas exploration and production operations on Federal Land owned by the Bureau of Land Management (BLM).

On February 9, 2022, a supply gas line to a pneumatic controller malfuntioned which caused the oil dump to also malfunction. Approximately 1 barrel (bbl) of crude oil was pushed out of the separator to the flare line where the oil ignited and burned at the flare stack. The crude oil ignited and extinguished itself after reaching the ground, leaving soot around the flare stack. The fire affected the well pad beneath the flare. BTA immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Release Notification Form C-141 (Form C-141) on February 21, 2022. The release was assigned Incident Number nAPP2204151142.

### 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-141s, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater is New Mexico Office of the State Engineer (NMOSE) well C-03587 POD 2, located approximately 0.87 miles west of the Site. The groundwater well has a reported depth to groundwater of 16 feet bgs and a

BTA Oil Producers, LLC Closure Request Harroun East Tank Battery

total depth of 77 feet bgs. Ground surface elevation at the groundwater well location is 2,964 feet above mean sea leavel (amsl), which is approximately 4 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a Salt Lake, located approximately 663 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is 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): 100 mg/kg

Chloride: 600 mg/kg

### ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 8, 2023, and October 26, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Twelve assessment soil samples (SS01 through SS12) were collected within and around the release area, to assess for the presence or absence of impacted soil and confirm the extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release area and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.0.

Laboratory analytical results for assessment samples SS01 through SS04, SS11, and SS12, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for assessment samples SS08 through SS10, collected within the release area, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for assessment samples SS05 through SS07, collected within the release area, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for assessment samples SS05 through SS07, excavation activities were warranted.

BTA Oil Producers, LLC Closure Request Harroun East Tank Battery

### **EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS**

Between June 5, 2023 and December 1, 2023, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for assessment samples SS05 through SS07. Excavation activities were performed utilizing hand shovels, back-hoe, and hydrovac. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 3 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extents. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04 were collected from the floor of excavation at depths ranging from 1-foot to 3 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for excavation floor samples FS02 through FS04 and excavation sidewall samples SW01 and SW02 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for floor sample FS01 indicated TPH concentrations exceeded the Site Closure Criteria at a depth 1-foot bgs. Additional soil was removed in the vicinity of floor sample FS01 and subsequent sample FS01A, collected at a depth of 1.25 feet bgs, was compliant with the Site Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation area measured approximately 770 square feet. A total of approximately 40 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the OWL Landfill Services, LLC in Jal, New Mexico.

### **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address impacted soil resulting from the flare fire and crude oil release at the Site. Laboratory analytical results for the excavation soil samples, collected from the final excavation extents, indicated all COCs were compliant with the Site Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2204151142. Notifications submitted to the NMOCD are included in Appendix D and the final Form C-141 is included in Appendix E.

BTA Oil Producers, LLC Closure Request Harroun East Tank Battery

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

Daniel R. Moir, PG

Senior Managing Geologist

Sincerely, **Ensolum, LLC** 

Hadlie Green Project Geologist

cc: Kelton Beaird, BTA

Bureau of Land Management

### Appendices:

Figure 1 Site Receptor Map

Figure 2 Assessment Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

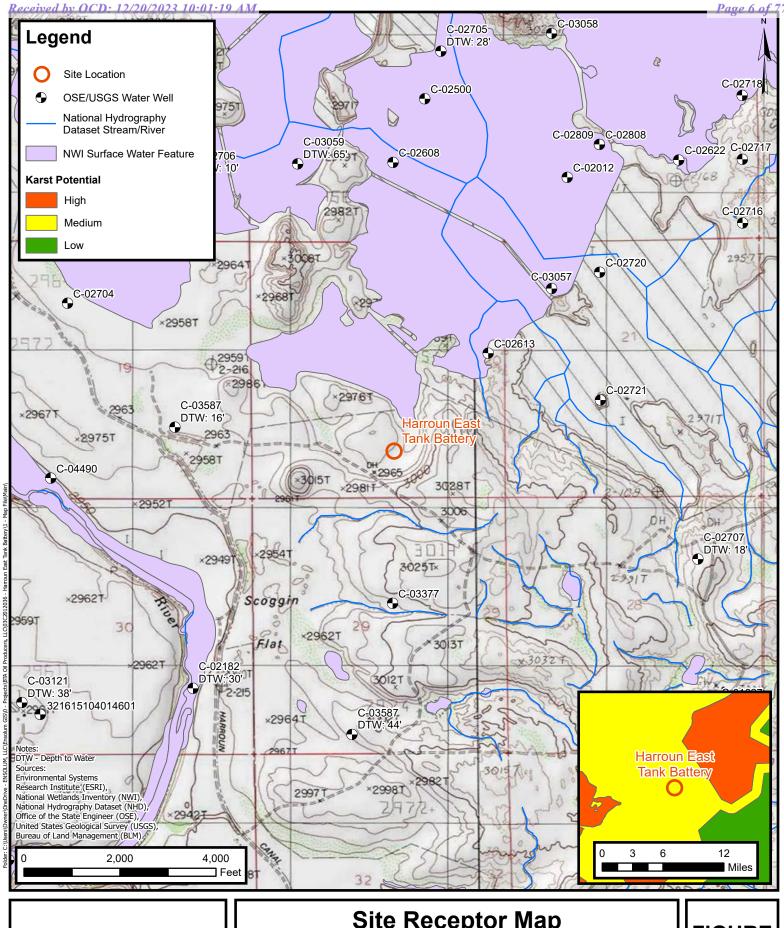
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D NMOCD Notifications

Appendix E Final C-141



**FIGURES** 



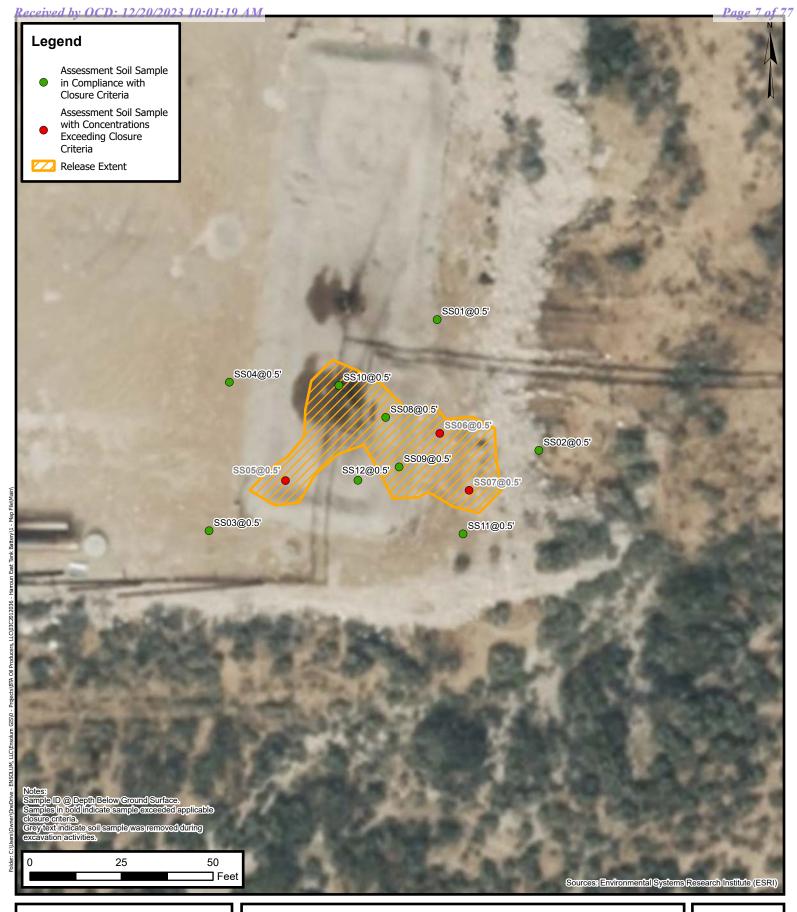


## **Site Receptor Map**

BTA Oil Producers, LLC Harroun East Tank Battery Incident Number: nAPP2204151142 Unit O, Sec 34, T23S R29E Eddy County, New Mexico

**FIGURE** 

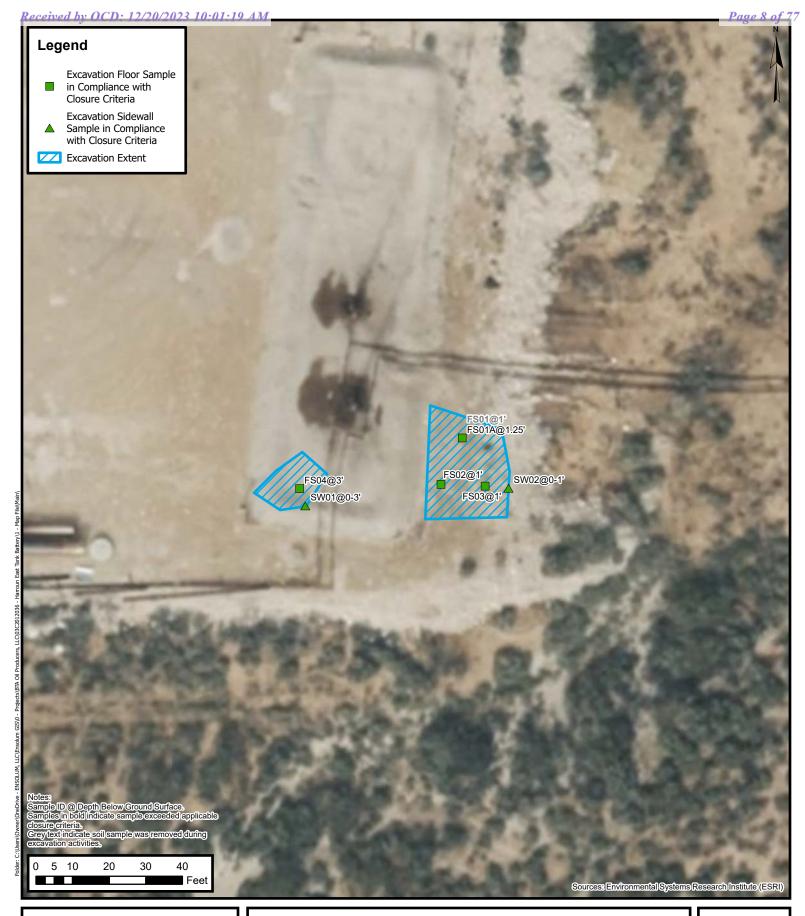
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# **Assessment Soil Sample Locations**

BTA Oil Producers, LLC Harroun East Tank Battery Incident Number: nAPP2204151142 Unit O, Sec 34, T23S R29E Eddy County, New Mexico FIGURE 2





# **Excavation Soil Sample Locations**

BTA Oil Producers, LLC Harroun East Tank Battery Incident Number: nAPP2204151142 Unit O, Sec 34, T23S R29E Eddy County, New Mexico FIGURE 3



**TABLES** 



### **TABLE I SOIL SAMPLE ANALYTICAL RESULTS Harroun East Tank Battery BTA Oil Producers, LLC**

				Eddy	County, New	Mexico				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Asse	ssment Soil Sa	mples				
SS01	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS02	05/08/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS03	05/08/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS04	05/08/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS05	05/08/2023	0.5	< 0.050	< 0.300	<10.0	613	160	613	773	5,600
SS06	05/08/2023	0.5	< 0.050	<0.300	<10.0	4,180	812	4,180	4,992	144
SS07	05/08/2023	0.5	< 0.050	<0.300	<10.0	22,900	4,870	22,900	27,770	96.0
SS08	10/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS09	10/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS10	10/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS11	10/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS12	10/26/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
				Exca	avation Soil Sai	mples				
FS01	06/05/2023	1	< 0.050	<0.300	<10.0	86.0	19.2	86.0	105	480
FS01A	12/01/2023	1.25	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS02	06/05/2023	1	<0.050	<0.300	<10.0	14.6	<10.0	14.6	14.6	272
FS03	06/05/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS04	12/01/2023	3	<0.050	<0.300	<10.0	43.3	<10.0	43.3	43.3	320
SW01	12/01/2023	0-3	<0.050	<0.300	<10.0	90.2	<10.0	90.2	90.2	400
SW02	12/01/2023	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0

### Notes:

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

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **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

Grey text indicates sample that has been excavated.

**Ensolum** 



**APPENDIX A** 

Referenced Well Records



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

 $\mathbf{X}$ 

C 03587 POD2

23S 29E

592213 3572706

**Driller License:** 

1348

**Driller Company:** 

TAYLOR WATER WELL SERVICE

**Driller Name:** 

TAYLOR, CLINTON E. (LD)

**Drill Finish Date:** 

04/13/2013 Plug Date:

Shallow

**Drill Start Date:** Log File Date:

05/07/2013 **PCW Rcv Date:** 

Source:

**Pump Type:** 

04/11/2013

**Pipe Discharge Size:** 

**Estimated Yield:** 

20 GPM

**Casing Size:** 

4.00

**Depth Well:** 

77 feet Depth Water: 16 feet

Water Bearing Stratifications:

**Bottom Description** 

Top

Top

65 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

61

**Bottom** 71

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

12/6/23 9:12 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE

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	30	61	31	Clay: gry,brn,sndy	,	OYON	
	61	65	4	Gravel+Conglomerate:rd,brn,gry,1/8"-1/4",sme sand		© Y O N	15-20
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USGS Home Contact USGS Search USGS

**National Water Information System: Web Interface** 

**USGS** Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

GO

### Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 321615104014601

### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 321615104014601 23S.29E.30.331322

Eddy County, New Mexico

Latitude 32°16'15", Longitude 104°01'46" NAD27

Land-surface elevation 2,962 feet above NAVD88

The depth of the well is 89 feet below land surface.

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

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

### **Output formats**

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measure
1954-11-08		D	62610		2924.82	NGVD29	1		Z	
1954-11-08		D	62611		2926.38	NAVD88	1		Z	
1954-11-08		D	72019	35.62			1		Z	

### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

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

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

Accessibility FOIA Privacy Policies and Notices

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

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2023-12-06 11:36:16 EST

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**APPENDIX B** 

Photographic Log



### **Photographic Log**

BTA Oil Producers, LLC Harroun East Tank Battery, Flare Incident Number: nAPP2204151142





Photograph: 1 Date: 5/5/2023

Description: Soil staining during initial assessment

View: South

Photograph: 2 Date: 6/5/2023

Description: Excavation activities

View: Southwest





Photograph: 3 Date: 6/5/2023

Description: Excavation activities

View: East

Photograph: 4 Date: 12/1/2023

Description: Excavation/Hydrovac activities

View: Northeast

# **ENSOLUM**

## APPENDIX C

Laboratory Analytical Reports &

Chain of Custody Documentation



May 11, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: HARROUN E TANK BATTERY FLARE

Enclosed are the results of analyses for samples received by the laboratory on 05/08/23 14:27.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact
Project Number: 03C2012036 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA - ( 32.286504-104.00593 )

mg/kg

### Sample ID: SS 01 @ 0.5' (H232263-01)

BTEX 8021B

DILX 6021D	ilig	/ Ng	Allalyze	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2023	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	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact
Project Number: 03C2012036 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA - ( 32.286504-104.00593 )

### Sample ID: SS 02 @ 0.5' (H232263-02)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact
Project Number: 03C2012036 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA - ( 32.286504-104.00593 )

### Sample ID: SS 03 @ 0.5' (H232263-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact
Project Number: 03C2012036 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA - ( 32.286504-104.00593 )

### Sample ID: SS 04 @ 0.5' (H232263-04)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: Sampling Type: Soil 05/11/2023

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C2012036 Shalyn Rodriguez

Project Location: BTA - (32.286504-104.00593)

### Sample ID: SS 05 @ 0.5' (H232263-05)

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	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	05/09/2023	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	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	613	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	160	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	6 49.1-14	8						

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### Analytical Results For:

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

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: Sampling Type: Soil 05/11/2023

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact Project Number: 03C2012036 Sample Received By: Shalyn Rodriguez

Project Location: BTA - (32.286504-104.00593)

### Sample ID: SS 06 @ 0.5' (H232263-06)

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	05/09/2023	ND	2.00	99.9	2.00	0.718	
Toluene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	0.266	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.97	98.4	2.00	1.51	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.11	102	6.00	1.36	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	144	16.0	05/09/2023	ND	432	108	400	3.77	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	4180	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	812	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Celey D. Keene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: Sampling Type: Soil 05/11/2023 Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition:

Cool & Intact Sample Received By: Project Number: 03C2012036 Shalyn Rodriguez

Project Location: BTA - (32.286504-104.00593)

### Sample ID: SS 07 @ 0.5' (H232263-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	2.00	99.9	2.00	0.718	
Toluene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	0.266	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.97	98.4	2.00	1.51	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.11	102	6.00	1.36	
Total BTEX	<0.300	0.300	05/09/2023	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	96.0	16.0	05/09/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	05/10/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	22900	100	05/10/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	4870	100	05/10/2023	ND					
Surrogate: 1-Chlorooctane	140 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	792 9	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



		COIII	aliausiiii.	gcardina	ey.keene(	nges to cel	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinaliaosiiii.com	anges. Pi	cept verbal ch	annot ac	+ Cardinal o	OKM-000 K 3.3 07/10/22	PORM-000
p. °C	Corrected Temp. °C	□ Yes □ Yes □ No		Kusii	rID #113 actor -0.6°C	Thermometer ID Correction Factor	(Initials)	No es	Cool Intact	0.5	Corrected Temp. °C	Sircle One) Bus - Other:	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
ກໍສ	Sample Conditio	Bacteria (only) Sample Condition	and -	Standard	Time:	Turnaround Time	CHECKED BY:		Sample Condition		Time:		_
			5	1	3	REMARKS:		-	ed By:	Received By	Date:	X.	Relinquished By:
		nailed. Please provide Email address:	provide E	) Please	are emailed	All Results are em	3	2	200	2	Time: 27	The second	Relinquished By:
		Add'l Phone #:	o Add'	es 🗆 No	ult: □ Yes	Verbal Result:	ruptions, loss of use, or loss of profits incurred by ca ich claim is based upon any of the above stated res	n is based upon	on, business interruptions, less of whether such claim	including without limitate nder by Cardinal, regard	consequental damages, including without limitation, business interruptions, loss of teas, or loss of profits instanted by seams, as automostic and a services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or offlerwise.  Verbal Res.	ayses. All claims including those to improve the property of the performance in no event shall Cardinal be liable for incidental or considerate or successors arising out of or related to the performance.	analyses. All claims including service. In no event shall Ca affiliates or successors arising
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June 14, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: HARROUN E TANK BATTERY FLARE

Enclosed are the results of analyses for samples received by the laboratory on 06/07/23 14:20.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 06/07/2023 Sampling Date: 06/05/2023 Soil

Reported: 06/14/2023 Sampling Type: Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition:

Cool & Intact Project Number: 03C2012036 Sample Received By: Shalyn Rodriguez

Project Location: BTA (32.28584 - 104.00593)

### Sample ID: FS 01 1' (H232897-01)

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	06/09/2023	ND	2.22	111	2.00	1.28	
Toluene*	<0.050	0.050	06/09/2023	ND	2.21	111	2.00	0.322	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	1.27	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.68	111	6.00	1.15	
Total BTEX	<0.300	0.300	06/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/08/2023	ND	400	100	400	3.92	
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	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	86.0	10.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	19.2	10.0	06/08/2023	ND					
Surrogate: 1-Chlorooctane	112 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 06/07/2023 Reported:

06/14/2023

Project Name: HARROUN E TANK BATTERY FLARE Project Number: 03C2012036

Project Location: BTA ( 32.28584 - 104.00593 ) Sampling Date: 06/05/2023

Sampling Type: Soil

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

### Sample ID: FS 02 1' (H232897-02)

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	06/09/2023	ND	2.19	110	2.00	6.15	
Toluene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	5.87	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.14	107	2.00	4.65	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.65	111	6.00	4.62	
Total BTEX	<0.300	0.300	06/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	272	16.0	06/08/2023	ND	400	100	400	3.92	
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	06/08/2023	ND	209	105	200	2.55	
DRO >C10-C28*	14.6	10.0	06/08/2023	ND	194	96.9	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					
Surrogate: 1-Chlorooctane	112 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 06/07/2023 Sampling Date: 06/05/2023

Reported: 06/14/2023 Sampling Type: Soil

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact
Project Number: 03C2012036 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: BTA ( 32.28584 - 104.00593 )

mg/kg

### Sample ID: FS 03 1' (H232897-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	6.15	
Toluene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	5.87	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.14	107	2.00	4.65	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.65	111	6.00	4.62	
Total BTEX	<0.300	0.300	06/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/08/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	209	105	200	2.55	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	194	96.9	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# CARDINA Laboratorie

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

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Phone #: 43/	1.557-8895	Fax #:		50	Pecos St		
Project #:03	C2012036	036 Project Owner:		Slaud			
Project Name: Hally ou	2	East lank	たまる	State: Y Zip: 7	10+8+3to		
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October 18, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: HARROUN E TANK BATTERY FLARE

Enclosed are the results of analyses for samples received by the laboratory on 10/12/23 11:15.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/12/2023 Sampling Date: 10/12/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact
Project Number: 03C2012036 Sample Received By: Tamara Oldaker

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Project Location: BTA ( 32.28584 - 104.00593 )

### Sample ID: FS 04 @ 0.5' (H235575-01)

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	10/14/2023	ND	2.02	101	2.00	4.73	
Toluene*	<0.050	0.050	10/14/2023	ND	2.08	104	2.00	5.10	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.12	106	2.00	5.41	
Total Xylenes*	0.248	0.150	10/14/2023	ND	6.36	106	6.00	5.76	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/13/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.7	10.0	10/13/2023	ND	176	87.8	200	3.35	
DRO >C10-C28*	4770	10.0	10/13/2023	ND	207	104	200	2.01	
EXT DRO >C28-C36	1200	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	77.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



10/12/2023

### Analytical Results For:

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

Received: 10/12/2023 Sampling Date:

Reported: Sampling Type: Soil 10/18/2023

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact Project Number: 03C2012036 Sample Received By: Tamara Oldaker

Project Location: BTA ( 32.28584 - 104.00593 )

### Sample ID: FS 05 @ 0.5' (H235575-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	2.02	101	2.00	4.73	
Toluene*	<0.050	0.050	10/14/2023	ND	2.08	104	2.00	5.10	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.12	106	2.00	5.41	GC-NC
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.36	106	6.00	5.76	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	147 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/13/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.1	10.0	10/13/2023	ND	176	87.8	200	3.35	
DRO >C10-C28*	5640	10.0	10/13/2023	ND	207	104	200	2.01	
EXT DRO >C28-C36	1400	10.0	10/13/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

ecovery.

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

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

# CHAIN-OF CUSTODY AND ANALYSIS REQUEST



aboratories

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	2476	
Company Name: Translum IIC	BILL TO	ANALYSIS REQUEST
Project Manager: Amer Cle	P.O. #:	
Motor 15	Compan	
Carlstad	el tom	the state of the s
·#.770-	Address: 1045	PassSt
Project #: 03C201 203\@ Project Owner:	8740, city: 1	
me: therow East T	ery - Flore State:	70
" 32.28584,	-104.00593 Phone #:	
Romi Have	Fax #:	
FOR UAB USE ONLY	MATRIX PRESERV. SAMPLING	ING
Lab I.D. Sample I.D.	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH CI-
FSO4 @0.5	£2-21-01 × × 1	X
2 FSOS @0.5'	C - ×	S NOON X X X
PLEASE NOTE: Lability and Damages. Certinal's lability and client's acclusive remody for any claim arising whether based in contract or lot, shall be limited to the amount paid by the client for the paralyses. All claims including those for negligence and any other cause whatbower shall be desired waved unless made in writing and received by Certinal within 30 days after completion of the applicable service. In no sevent shall Certinal to liable for incidental or consequential demanges, including sharked limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiatives, afficients or successors arising out of or related to the performance of services becausing out of or related to the performance of services becausing:	nfis euclusive remody (or any claim exising whether based in contract or bot, shall be limited to the amount paid ause whotspower shall be deemed waived unless made in wifing and received by Cardinal within 30 days after querial demagos, forbuffry without dimitation, business interruptions, loss of use, or loss of profits incurred by die of services hereunder ∟ ⊃udinal, regardess of whether such claim is based upon any of the above stated rear	pplicable
hed By:	3 Received By:	All Results are emailed. Piezze provide Email address:  All Results are emailed. Piezze provide Email address:  All Results are emailed. Piezze provide Email address:
Relinquished By: Date:	Received By:	REMARKS:
Delivered By: (Circle One)  Observed Temp. °C  Sampler - UPS - Bus - Other:  Corrected Temp. °C	3.3 Sample Condition CHECKED BY: Cool Infact (Initials) A Yes Tyes No No No	Turnaround Time: Standard M Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #140 Correction Factor 0°C



November 06, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN EAST TANK BATTERY - FLARE

Enclosed are the results of analyses for samples received by the laboratory on 10/31/23 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/31/2023 Reported: 11/06/2023

Project Name: HARROUN EAST TANK BATTERY - FLARE

Project Number: 03C2012036

Project Location: BTA ( 32.28584-104.00593 )

Sampling Date: 10/26/2023

Sampling Type: Soil

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

### Sample ID: SS 09 @ 0.5' (H235956-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2023	ND	2.11	105	2.00	1.45	
Toluene*	<0.050	0.050	11/03/2023	ND	1.91	95.3	2.00	2.87	
Ethylbenzene*	<0.050	0.050	11/03/2023	ND	1.94	97.0	2.00	4.22	
Total Xylenes*	<0.150	0.150	11/03/2023	ND	5.76	95.9	6.00	3.78	
Total BTEX	<0.300	0.300	11/03/2023	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	32.0	16.0	11/06/2023	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	11/02/2023	ND	192	96.2	200	5.85	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	199	99.3	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

(575) 393-2326 Company Name: Ensolum, LLC	(575) 393-2326 FAX (575) 393-2476 Insolum, LLC	BILL TO	ANALYSIS REQUEST
Address: 601 N Marienfeld Street, Suite 400		Company: BIA Oil	
City: Midland	State: TX Zip: 79701	Attn: Kelton Bealro	
Phone #: 432-557-8895	Fax#:	Address: 104 S Pecos St	
Project #:03C2012036	Project Owner:	and	
Project Name: Harroun East Tank Battery-Flare	Battery-Flare	State: TX Zip: 79701	
rioject Maille, Harris and And And And	1603	Phone #: 432-312-2203	
Project Location: 32.28584,-104.00593	593	Exy #	
Sampler Name: Peter Van Patten	TOTAL	DRESERV SAMPLING	5
FOR LAB USE ONLY	IP.		de
Lab I.D. Sample I.D.		SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	X TPH S BTEX
60SS / SS09		V 10-26-23 1050	× × ×
		7	
PLEASE NOTE: Liability and Damages. Cardinal's liability	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the publicable of the specific part of the	tract or tort, shall be limited to the amount paid by the client g and received by Cardinal within 30 days after completion	for the opplicable
service. In no event shall Cardinal be liable for incidental or coverence or successors arising out of or related to the performation of the performance o	service. In no event shall Cardinal be liable for incidental dor consequental damages, including without miniation, outsiness sensity-locally, visual variety of the shall Cardinal be liable for incidental or consequental damages, including without miniation, outsiness sensity-locally, visual variety of the shall cardinal be liable for incidental or consequental damages, including without miniation, outsiness sensity-locally, visual variety of the damages and outside your wholl miniation, outsiness sensity-locally, visual variety of the damages and outside your miniation, outsiness sensity-locally, visual variety of the damages, including without miniation, outsiness sensity-locally, visual variety of the damages, including without miniation, outsiness sensity-locally, visual variety of the damages, including without miniation, outsiness sensity-locally, visual variety of the damages, including without miniation, outsiness sensity-locally, visual variety of the damages, including without miniation, outsiness sensity-locally, visual variety of the damages, including without miniation, outsiness sensity outside the damages, including without miniation, outside the damages, including without miniation of the damages, including without miniation of the damages, including without miniation, outside the damages, including without miniation, outside the damages, including without miniation of the damages, including without miniation of the damages, including without miniation of	ch claim is based upon any of the above stated reasons or other works.  Verbal	auns or otherwise.  Verbal Result: □ Yes B'No   Add'! Phone #:  All Results are emailed. Please provide Email address:
Relinquished by:	Time: 3/5 9	HA MULLAN AMPRES	hgreen@ensolum.com
Relinquished By:	Date: Received By:	REMARKS:	
Delivered By: (Circle One)	Observed Temp. Cool Intact Cool Intact Vest Yes	(Initials)	Rush
Sampler - UPS - Bus - Other:	-	Υ	, 0.3°C



December 08, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: HARROUN E TANK BATTERY FLARE

Enclosed are the results of analyses for samples received by the laboratory on 12/05/23 14:23.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 12/05/2023
 Sampling Date:
 12/01/2023

 Reported:
 12/08/2023
 Sampling Type:
 Soil

Reported: 12/08/2023 Sampling Type: Soil
Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact
Project Number: 03C2012036 Sample Received By: Dionica Hinojos

A ... - I. ... - - I D. ... 311 /

Project Location: BTA ( 32.28584 - 104.00593 )

### Sample ID: FS 04 3.0' (H236525-01)

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	12/05/2023	ND	2.13	107	2.00	3.11	
Toluene*	<0.050	0.050	12/05/2023	ND	2.11	105	2.00	2.94	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.58	110	6.00	3.09	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/06/2023	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	12/05/2023	ND	202	101	200	0.904	
DRO >C10-C28*	43.3	10.0	12/05/2023	ND	206	103	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	146	% 49.1-14	8						

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Celey & Keene



### Analytical Results For:

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

Received: 12/05/2023 Reported: 12/08/2023

12/08/2023 HARROUN E TANK BATTERY FLARE

Project Name: HARROUN E
Project Number: 03C2012036

Project Location: BTA ( 32.28584 - 104.00593 )

Sampling Date: 12/01/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

### Sample ID: FS 01A 1.25' (H236525-02)

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	12/05/2023	ND	2.13	107	2.00	3.11	
Toluene*	<0.050	0.050	12/05/2023	ND	2.11	105	2.00	2.94	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.58	110	6.00	3.09	
Total BTEX	<0.300	0.300	12/05/2023	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	12/06/2023	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	12/05/2023	ND	202	101	200	0.904	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	206	103	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Freene



### Analytical Results For:

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

Received: 12/05/2023 Sampling Date: 12/01/2023

Reported: 12/08/2023 Sampling Type: Soil

Project Name: HARROUN E TANK BATTERY FLARE Sampling Condition: Cool & Intact
Project Number: 03C2012036 Sample Received By: Dionica Hinojos

Applyzod By: 1H /

Project Location: BTA ( 32.28584 - 104.00593 )

### Sample ID: SW 01 0'-3' (H236525-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.13	107	2.00	3.11	
Toluene*	<0.050	0.050	12/05/2023	ND	2.11	105	2.00	2.94	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.58	110	6.00	3.09	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/06/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	202	101	200	0.904	
DRO >C10-C28*	90.2	10.0	12/05/2023	ND	206	103	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreene



### Analytical Results For:

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

Received: 12/05/2023 Reported: 12/08/2023

HARROUN E TANK BATTERY FLARE

Project Number: 03C2012036

Project Location: BTA ( 32.28584 - 104.00593 ) Sampling Date: 12/01/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Dionica Hinojos

### Sample ID: SW 02 0'-1' (H236525-04)

Project Name:

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	12/05/2023	ND	2.13	107	2.00	3.11	
Toluene*	<0.050	0.050	12/05/2023	ND	2.11	105	2.00	2.94	
Ethylbenzene*	< 0.050	0.050	12/05/2023	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.58	110	6.00	3.09	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	96.0	16.0	12/06/2023	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	12/05/2023	ND	202	101	200	0.904	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	206	103	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	110 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **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

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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

(575) 393-2326	(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS REQUEST
Company Name: Ensolum, LLC		*	
Project Manager: Hadlie Green		Company: BTA Oil	
Address: 601 N Marienfeld Street, Suite 400	uite 400	Company. Direct	
City: Midland	State: TX Zip: 79701	Attn: Kelton Beaird	
Phone #: 432-557-8895	Fax#:	Address: 104 S Pecos St	
Project #: 03C2012036	Project Owner:	City: Midland	
Project Name: Harroun East Tank Battery	attery	State: TX Zip: 79701	
20 200 - 100 005	0.7	Phone #: 432-312-2203	
Project Location: 32,28584,-104,00593	93	Pac #	
Sampler Name: Peter Van Patten		Fax #:	
FOR LAB USE ONLY	P. MATRIX	PRESERV	es
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL		TPH BTEX
1 FS04		121-13 1055	
8 FSOIA	1,25		( ,
100s <b>2</b>	0.3. (1)	101-07	
2002 b	0'-1' C 1 V	Ohb 52-1-21	
		\	
		1 PART	
		100	
	de de la company	assion whether based is contract or fort, shall be limited to the amount paid by the client for the	Slant for the
PLEASE NOTE: Liability and Damages. Cardinal's liability at analyses. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental or or	PLEASE NOTE: Labely and Damages. Cardinal's liability and clerits exclusive remote you any summanary messay where the public of the applicable analyses. All claims including those for negligence and any other cause shaftchever thall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other causes shaftchever thall be deemed waived unless made in writing and received by claim to the following the completions of the public that the completion of the applicable analyses. Including which we have been been classes or other districts.	ing and received by Cardinal within 30 days after completions, loss of use, or loss of profits incurred by client, its profits incurred by client, its	pplicable
affiliates or successors arising out of or related to the perform Relinquished By:	Date: Received By:	her such claim is based upon any or are above. Sense Veri	Verbal Result: □ Yes E No   Add'l Phone #:  All Results are emailed. Please provide Email address:  りなってのか どんらいしれん てのい
Relinquished By:	Date: Received By:	REI	REMARKS:
Delivered By: (Circle One)	Observed Temp. *C:3.1°C Sample Condition Cool Intact	CHECKED BY: (Initials)	ne: Standard L
Sampler - UPS - Bus - Other:	-	es SA	Thermometer ID #113-14/0 No Corrected Temp. °C



APPENDIX D

**NMOCD Notifications** 

From: Enviro, OCD, EMNRD

To: Hadlie Green

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

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 05/15/2023

**Date:** Friday, May 12, 2023 5:03:42 PM

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

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

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

Hadlie,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a>

Sent: Friday, May 12, 2023 8:25 AM

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

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Nathan Sirgo <nsirgo@btaoil.com>; Kevin Jones

(kjones@btaoil.com) <kjones@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 05/15/2023

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 May 15, 2023.

- Pardue 1H-4H Tank Battery / nAPP2130941255
  - Sampling Date: 5/16/2023 @ 9:00 AM MST
- Harroun East Tank Battery / nAPP2204151142

- Sampling Date: 5/18/2023 @ 9:00 AM MST
- Harroun East Tank Battery / nAPP2202845563
  - Sampling Date: 5/19/2023 @ 9:00 AM MST

Thank you,



From: Enviro, OCD, EMNRD

To: Hadlie Green

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

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 05/22/2023

**Date:** Friday, May 19, 2023 2:25:29 PM

Attachments: image005.jpg

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

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

Hadlie,

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

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a>>
Sent: Thursday, May 18, 2023 11:37 AM

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

**Cc:** Tacoma Morrissey <tmorrissey@ensolum.com>; Nathan Sirgo <nsirgo@btaoil.com>; Kevin Jones (kjones@btaoil.com) <kjones@btaoil.com>; Kelton Beaird <KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 05/22/2023

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

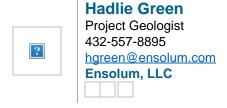
All,

BTA anticipates collecting confirmation samples at the following locations the week of May 22, 2023.

- Harroun Ranch #005 / nAPP2200455573
  - Sampling Date: 5/23/2023 @ 9:00 AM MST

- Harroun East Tank Battery / nAPP2204151142
  - Sampling Date: 5/22/2023 @ 9:00 AM MST
- Harroun East Tank Battery / nAPP2202845563
  - Sampling Date: 5/22/2023 @ 9:00 AM MST
- Mesa Dolphin CTB / nAPP2313555368
  - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Mesa 2H Production Facility / nAPP2115531696
  - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Rojo 20 21 Tank Batery / nAPP2123554329
  - Sampling Date: 5/26/2023 @ 9:00 AM MST
- Rojo 38 41 Tank Battery / nAPP2123555001
  - Sampling Date: 5/26/2023 @ 9:00 AM MST
- Mesa 8105 JV-P 004H / nOY1831160155 /nCH1903550822 / nRM2004549559
  - Sampling Date: 5/24-24/2023 @ 9:00 AM MST

Thank you,



From: Enviro, OCD, EMNRD

To: Hadlie Green

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

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 05/29/2023

**Date:** Wednesday, May 24, 2023 4:30:12 PM

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

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

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

Hadlie,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a>>
Sent: Wednesday, May 24, 2023 2:14 PM

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

**Cc:** Tacoma Morrissey <tmorrissey@ensolum.com>; Nathan Sirgo <nsirgo@btaoil.com>; Kevin Jones (kjones@btaoil.com) <kjones@btaoil.com>; Kelton Beaird <KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 05/29/2023

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

ΑII,

BTA anticipates collecting confirmation samples at the following locations the week of May 29, 2023.

- Rojo D 7811 JV P Com #003H / nOY1814130699
  - Sampling Date: 6/1/2023 @ 9:00 AM MST

- Harroun Ranch #005 / nAPP2200455573
  - Sampling Date: 6/2/2023 @ 9:00 AM MST
- Mesa Dolphin CTB / nAPP2313555368
  - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Mesa #2H Production Facility / nAPP2115531696
  - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Chiso 14 #3 & 4 Tank Flare / nOY1829542961
- Chiso 14 Sate 8711 #3H Flare Stack / nCH1903548008
- Chiso 14 State 8711 #003H Wellhead / nAB1917652490
- Chiso 14 State 8711 Flowline / nRM2034960665
  - Sampling Dates: 6/1-5/2023 @ 9:00 AM MST

Thank you,



### **Hadlie Green**

Project Geologist 432-557-8895

hgreen@ensolum.com

**Ensolum, LLC** 

 From:
 Buchanan, Michael, EMNRD

 To:
 Hadlie Green; Enviro, OCD, EMNRD

 Cc:
 Tacoma Morrissey; Peter Van Patten; Kelton Beaird; Nathan Sirgo

 Subject:
 RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/05/2023

**Date:** Friday, June 2, 2023 4:54:56 PM

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

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

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

Received.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Mike Buchanan • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

8801 Horizon Blvd. NE | Albuquerque, NM 87113

| michael.buchanan@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



From: Hadlie Green <hgreen@ensolum.com>

**Sent:** Friday, June 2, 2023 9:25 AM

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

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Peter Van Patten pvanpatten@ensolum.com>;

Kelton Beaird < KBeaird@btaoil.com>; Nathan Sirgo < nsirgo@btaoil.com> **Subject:** [EXTERNAL] BTA - Sampling Notification - Week of 06/05/2023

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

All,

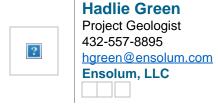
BTA anticipates collecting confirmation samples at the following locations the week of June 5, 2023.

- Harroun East Tank Battery / nAPP2202845563
  - Sampling Date: 6/5/2023 @ 9:00 AM MST
- Vaca Draw 9418 JV-P 001 / nCH1835540209

Sampling Date: 6/6/2023 @ 9:00 AM MST

- Carrasco 14-1H / nAPP2313656375
  - Sampling Date: 6/6/2023 @ 9:00 AM MST
- Chiso 14 State Jet Pump Excavation / nAPP2205837214
  - Sampling Date: 6/5/2023 @ 9:00 AM MST

Thank you,



From: <u>Hadlie Green</u>

To: OCD.Enviro@state.nm.us

Subject: BTA - Sampling Notification - Harroun East Tank Battery (Incident Number nAPP2204151142)

**Date:** Tuesday, November 28, 2023 2:37:00 PM

Attachments: image001.png

image002.png image003.png image004.png

All,

BTA anticipates collecting confirmation samples at the following location on Friday, December 1, 2023.

• Harroun East Tank Battery / nAPP2204151142

• Sampling Date: 12/01-04/2023 @ 9:00 AM MST

• GPS: 32.28584, -104.00593

Thank you,



### **Hadlie Green**

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

in f ¥



APPENDIX E

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2204151142
District RP	
Facility ID	fAPP2129830694
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) nAPP2204151142
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

### **Location of Release Source**

Latitude: 32.28584 Longitude: -104.00593

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Harroun East Tank Battery		Site Type: Tank Battery	,			
Date Release Discovered: 2/9/2022		API# (if applicable) Nearest we	ll:			
TT '. T					G.	1
Unit Letter	Section	Township	Range		County	
0	34	23S	29E	Edd	У	
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 1 BBL (burned) Volume Released (bbls) 1 BBL Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? 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 Dump Valve Failure. Malfunction of supply gas line to pneumatic controller caused oil dump to malfunction, pushing oil out of the separator and to the flare line where the oil ignited and burned up at the flare stack. The soot from the burned oil fell in the vicinity of the flare stack. (Spill calculation spreadsheet attached.)

Page 2

State of New Mexico
Oil Conservation Division

	Tug egur 20 y
Incident ID	nAPP2204151142
District RP	
E 111. TD	
Facility ID	fAPP2129830694
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	The notes are used to dive fine
19.15.29.7(A) NMAC?	The release resulted in a fire.
Yes □ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Via filing NOR docum	ent on NMOCD Permitting Portal that was assigned Incident ID # nAPP2204151142 on
2/10/2022.	
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
	s been secured to protect human health and the environment.
<u> </u>	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
_	ecoverable materials have been removed and managed appropriately.
<u> </u>	0 11 1
If all the actions described	d above have not been undertaken, explain why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
within a lined containmen	at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
und of regulations.	
Printed Name: Bob Hall	Title: Environmental Manager
Signature:	Date: 2/21/2022
email: bhall@btaoil.co	om Telephone: 432-682-3753
OCD Only	
Received by: Ramona	Marcus Date: 02/21/2022
Received by.	Date

### NAPP2204151142

**Location** Harroun East Flare Fire

API#

**Spill Date** 2/9/2022

### **Spill Dimensions**

ENTER - Length of Spill
ENTER - Width of Spill

**ENTER** - Saturation Depth of Spill

**ENTER** - Porosity Factor

Oil Cut - Well Test / Vessel Throughput or Contents

Oil

Water

Calculated Oil Cut

**Volume Recovered in Truck / Containment** 

ENTER - Recovered Oil

**ENTER** - Recovered Water

**Calculated Values** 

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

**Unrecovered Total Release** 

**Calculated Values** 

Total Release of Oil

**Total Release of Water** 

**Total Release** 

30	feet
30	feet
0.5	inches

0.15 decimal

99.999
0.001
0.99999

cal	'cu	lat	ed	

_	
BBL	1
BBL	0
BBL	1

### calculated

1	BBL
0	BBL
1	BBL

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

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

Х

Oil Cut (or Water Cut)

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

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

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

CONDITIONS

Action 82918

### **CONDITIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	82918
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	2/21/2022

e of New Mexico

Incident ID nAPP2204151142

Incident ID nAPP2204151142

District RP
Facility ID fAPP2129830694

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?	<50 (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.		
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> <li>Laboratory data including chain of custody</li> </ul>		

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

Received by OCD: 12/20/2023 10:01:19 AM State of New Mexico
Page 4 Oil Conservation Division

	Page 68 of	77
Incident ID	nAPP2204151142	
District RP		
Facility ID	fAPP2129830694	
Application ID		

AM Page 69 of 77 tate of New Mexico Incident ID InAPP2204151142

Incident ID	nAPP2204151142
District RP	
Facility ID	fAPP2129830694
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.		
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  Date: 12/14/2023  Telephone: 432-312-2203		
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by: Scott Rodgers	Date: _02/21/2024	
Printed Name: Scott Rodgers	Title: Environmental Specialist Adv.	

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

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

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

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

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

QUESTIONS

Action 296555

### **QUESTIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	296555
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2204151142
Incident Name	NAPP2204151142 HARROUN RANCH EAST TANK BATTERY @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2129830694] Harroun Ranch East

Location of Release Source	
Please answer all the questions in this group.	
Site Name	HARROUN RANCH EAST TANK BATTERY
Date Release Discovered	02/09/2022
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc.   Separator   Crude Oil   Released: 1 BBL   Recovered: 1 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Malfunction of supply gas line to pneumatic controller caused oil dump to malfunction, pushing oil out of the separator and to the flare line where the oil ignited and burned up at the flare stack. The soot from the burned oil fell in the vicinity of the flare stack.

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1220 S. St Francis Dr.
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QUESTIONS, Page 2

Action 296555

Phone: (505) 476-3470 Fax: (505) 476-3462		
QUESTIONS (continued)		
Operator:  BTA OIL PRODUCERS, LLC  104 S Pecos	OGRID: 260297 Action Number:	
Midland, TX 79701	296555 Action Type:	
QUESTIONS	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		
Initial Response  The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
1	1	

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

Not answered.

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

I hereby agree and sign off to the above statement

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I hereby agree and sign off to the above statement

Email: kbeaird@btaoil.com

Date: 12/20/2023

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

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

QUESTIONS, Page 3

Action 296555

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	296555
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be p.	provided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil con	ntamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineate	od Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for ea	ach, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	5600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	27770
GRO+DRO (EPA SW-846 Method 8015M)	22900
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	05/08/2023
On what date will (or did) the final sampling or liner inspection occur	12/01/2023
On what date will (or was) the remediation complete(d)	12/01/2023
What is the estimated surface area (in square feet) that will be reclaimed	770
What is the estimated volume (in cubic yards) that will be reclaimed	40
What is the estimated surface area (in square feet) that will be remediate	ed 770
What is the estimated volume (in cubic yards) that will be remediated	40
These estimated dates and measurements are recognized to be the best guess or calcul	lation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally ad	djusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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QUESTIONS, Page 4

Action 296555

### **QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	296555
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/20/2023

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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Action 296555

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	296555
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

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

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

QUESTIONS, Page 6

Action 296555

<b>QUESTIONS</b>	(continued)
QUESTIONS!	COH I III I I I I C C I I

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	296555
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	296551
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/01/2023
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1442

Remediation Closure Request	Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	770	
What was the total volume (cubic yards) remediated	40	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	770	
What was the total volume (in cubic yards) reclaimed	40	
Summarize any additional remediation activities not included by answers (above)	All impacted soil has been excavated to the most stringent criteria and backfilled with non-waste containing soil	

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

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

Name: BTA ENSOLUM
Title: Environmental Manager
Email: kbeaird@btaoil.com
Date: 12/20/2023

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QUESTIONS, Page 7

Action 296555

<b>QUESTIONS</b>	(continued)
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Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	296555
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

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

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CONDITIONS

Action 296555

### **CONDITIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	296555
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Created By	Condition	Condition Date
scott.rodge	rs None	2/21/2024