



February 14, 2023

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request  
Rojo 22-25 Tank Battery  
Incident Numbers nAPP2206753386 and nAPP2209076202  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Rojo 22-25 Tank Battery (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following two release events at the Site. Based on the excavation activities completed 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 Numbers nAPP2206753386 and nAPP2209076202.

#### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit N, Section 22, Township 25 South, Range 33 East, in Lea County, New Mexico (32.11186°, -103.56366°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

##### nAPP2206753386

On March 7, 2022, a fitting failed on the separator, resulting in the release of approximately 7 barrels (bbls) of produced water and 5 bbls of crude oil onto the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 6 bbls of produced water and 4 bbls of crude oil were recovered. BTA reported the release to the New Mexico Oil and Conservation Division (NMOCD) on March 8, 2022 and submitted a Release Notification Form C-141 (Form C-141). The release was assigned Incident Number nAPP2206753386.

##### nAPP2209076202

On March 17, 2022, a valve failed on the separator, resulting in the release of approximately 10 bbls of crude oil onto the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 3 bbls of crude oil were recovered. BTA reported the release to the NMOCD on March 31, 2022 and submitted a Form C-141. The release was assigned Incident Number nAPP2209076202.

BTA Oil Producers, LLC  
Closure Request  
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## SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on a recent boring drilled for determination of regional groundwater depth. On January 3, 2023, a borehole (BH01) was advanced to a depth of 60 feet bgs via air rotary drill rig. The borehole was located approximately 0.25 miles southeast of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix A. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is between 51 feet and 100 feet bgs. The borehole was properly abandoned using drill cuttings and hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a stream, located approximately 10,980 feet north 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 (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) -gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

## SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On October 17, 2022, Ensolum personnel were at the Site to evaluate the releases based on information provided on the Form C-141s and visual observations. The releases overlapped so a single release extent was mapped utilizing a handheld Global Positioning System (GPS) unit. In addition, six assessment soil samples (SS01 through SS06) were collected within and around the release extents at a depth of approximately 0.5 feet bgs to assess shallow soil for the presence or absence of impacts from the two releases. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for

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

Laboratory analytical results for soil sample SS01, collected within the release extent, indicated TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for soil samples SS02 through SS06 indicated all COC concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix C.

Based on visible staining in the release areas and elevated field screening results, excavation activities appeared to be warranted.

## EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

On December 15, 2022, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated as indicated by visible staining, field screenings and laboratory analytical results. Excavation activities were performed via hand shoveling and a hydrovac truck. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 1-foot bgs.

Following the excavation activities, 5-point composite samples were collected from the floor and sidewalls of the excavation. 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 and FS02 were collected from the floor of the excavation at a depth of 1-foot bgs. Composite soil sample SW01 was collected from the sidewall of the excavation. Due to the shallow nature of the excavation, one sidewall sample was collected for the full parameter, which also included a portion of the floor based on the sloped sidewall configuration. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. A photographic log of the excavation is included as Appendix B.

Laboratory analytical results for excavation soil samples FS01, FS02, and SW01, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 415 square feet in areal extent. A total of approximately 15 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

## CLOSURE REQUEST

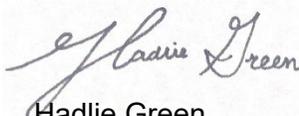
Site assessment and excavation activities were conducted at the Site to address impacted soil resulting from two release events at the Site. Laboratory analytical results for the excavation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. In addition, laboratory analytical results for lateral delineation soil samples SS04 through SS06 indicated all COC concentrations were compliant with the strictest Table I Closure Criteria and successfully defined the release extent. Based on the soil sample analytical results, no further remediation appears to be required with the exception of properly backfilling and contouring the excavated area on pad.

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Depth to groundwater is estimated to be between 51 feet and 100 feet bgs and no other sensitive receptors were identified near the Site. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Numbers nAPP2206753386 and nAPP2209076202. The Form C-141 is included as Appendix E.

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

Sincerely,  
**Ensolum, LLC**



Hadlie Green  
Staff Geologist



Tacoma Morrissey  
Senior Geologist

cc: Bob Hall, BTA Oil Producers, LLC  
Bureau of Land Management

Appendices:

Figure 1 Site Location Map  
Figure 2 Delineation 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 Final C-141



FIGURES



### Legend

- Delineation Soil Sample Location with Concentrations Exceeding Closure Criteria
- Delineation Soil Samples with Concentrations in Compliance with Closure Criteria
- Release Extent



**NOTES:**

Soil samples in **bold** indicate soil concentrations exceeds the applicable regulatory closure criteria. Sample ID @ Depth Below Ground Surface.



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## Delineation Soil Sample Sample Locations

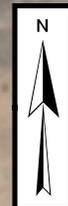
BTA Oil Producers, LLC  
 Rojo 22-25 Tank Battery  
 nAPP2206753386 & nAPP2209076202  
 Unit Letter N, Sec 22, T25S, R33E  
 Lea County, New Mexico

FIGURE  
**2**



### Legend

- Excavation Floor Samples with Concentrations in Compliance with Closure Criteria
- Excavation Sidewall Samples with Concentrations in Compliance with Closure Criteria
- Existing Excavation



SW01@0-1'  
 FS01@1'  
 FS02@1'

NOTES:  
 Soil samples in **bold** indicate soil concentrations exceeds the applicable regulatory closure criteria.  
 Sample ID @ Depth Below Ground Surface.



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## Excavation Soil Sample Locations

BTA Oil Producers, LLC  
 Rojo 22-25 Tank Battery  
 nAPP2206753386 & nAPP2209076202  
 Unit Letter N, Sec 22, T25S, R33E  
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FIGURE  
**3**





TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Rojo 22-25 Tank Battery  
BTA Oil Producers, LLC  
Lea County, New Mexico**

| Sample I.D.   | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| <b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b> |             |                         | <b>10</b>       | <b>50</b>          | <b>NE</b>       | <b>NE</b>       | <b>NE</b>       | <b>1,000</b>    | <b>2,500</b>      | <b>10,000</b>    |
| <b>Delineation Soil Samples</b>                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01  | 10/17/2022  | 0.5                     | <0.050          | <0.300             | <10.0           | <b>2,330</b>    | <b>395</b>      | <b>2,330</b>    | <b>2,725</b>      | <b>6,880</b>     |
| SS02  | 10/17/2022  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 96.0             |
| SS03  | 10/17/2022  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 16.0             |
| SS04  | 10/17/2022  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | <16.0            |
| SS05  | 10/17/2022  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | <16.0            |
| SS06  | 10/17/2022  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 16.0             |
| <b>Excavation Soil Samples</b>                        |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| FS01  | 12/15/2022  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 896              |
| FS02  | 12/15/2022  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| SW01  | 12/15/2022  | 0-1                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 80.0             |

Notes:

bgs: below ground surface  
 mg/kg: milligrams per kilogram  
 NMOCD: New Mexico Oil Conservation Division  
 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



## APPENDIX A

### Referenced Well Records

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|   |                |             |          |           |                       |                |                  | Sample Name: BH01  |  | Date: 1/3/2023     |  |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|  |                |             |          |           |                       |                |                  | Site Name: Rojo 22-25 Tank Battery   |  |                    |  |
|  |                |             |          |           |                       |                |                  | Incident Number: nAPP2206753386 & nAPP2209076202   |  |                    |  |
|  |                |             |          |           |                       |                |                  | Job Number: 03C2012008   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>  |                |             |          |           |                       |                |                  | Logged By: CS / MR   |  | Method: Air Rotary |  |
| Coordinates: 32.107784, -103.562235  |                |             |          |           |                       |                |                  | Hole Diameter: 6"  |  | Total Depth: 60'   |  |
| Comments: Soil boring was advanced to a total depth of 60' bgs. No water was observed within the soil boring after at least 72 hours. On 1/16/2023 the soil boring was plugged and abandoned using hydrated bentonite chips. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content   | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
|  |                |             |          |           |                       | 0              | CCHE             | (0-30'), CALICHE, coarse grain, well graded, white to tan, dry, no stain or odor.                                      |  |                    |  |
| Dry  | -              | -           | N        | -         | -                     | 10             |                  |  |  |                    |  |
| Dry  | -              | -           | N        | -         | -                     | 20             |                  | @20' color change to pink/tan  |  |                    |  |
| Dry  | -              | -           | N        | -         | -                     | 30             | SP-SM            | (30-78'), SAND, medium to fine grain, poorly graded with trace caliche nodules, red to orange, dry, no stain, no odor. |  |                    |  |
| Dry  | -              | -           | N        | -         | -                     | 40             |                  |  |  |                    |  |
| Dry  | -              | -           | N        | -         | -                     | 50             |                  | @50', slightly cohesive with trace clay  |  |                    |  |
| Dry  | -              | -           | N        | -         | -                     | 60             |                  | NOTE: refusal @ 60' using air rotary drill rig due to abundant sand.   |  |                    |  |
| Total Depth @ 60 feet bgs  |                |             |          |           |                       |                |                  |  |  |                    |  |



## APPENDIX B

### Photographic Log

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## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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October 24, 2022

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

RE: ROJO 22-25 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/18/22 14:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

|                   |                         |                     |                |
|-------------------|-------------------------|---------------------|----------------|
| Received:         | 10/18/2022              | Sampling Date:      | 10/17/2022     |
| Reported:         | 10/24/2022              | Sampling Type:      | Soil           |
| Project Name:     | ROJO 22-25 TANK BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C2012008              | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA                     |                     |                |

**Sample ID: SS01 .5' (H224889-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 1.92 | 96.1       | 2.00          | 2.27  |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 2.10 | 105        | 2.00          | 0.197 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2022 | ND              | 1.96 | 98.0       | 2.00          | 1.79  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2022 | ND              | 5.91 | 98.4       | 6.00          | 1.83  |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>6880</b> | 16.0            | 10/19/2022 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                | <10.0       | 10.0            | 10/19/2022 | ND              | 209 | 105        | 200           | 5.87 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>2330</b> | 10.0            | 10/19/2022 | ND              | 210 | 105        | 200           | 5.25 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>395</b>  | 10.0            | 10/19/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

|                   |                         |                     |                |
|-------------------|-------------------------|---------------------|----------------|
| Received:         | 10/18/2022              | Sampling Date:      | 10/17/2022     |
| Reported:         | 10/24/2022              | Sampling Type:      | Soil           |
| Project Name:     | ROJO 22-25 TANK BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C2012008              | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA                     |                     |                |

**Sample ID: SS02 .5' (H224889-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 1.92 | 96.1       | 2.00          | 2.27  |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 2.10 | 105        | 2.00          | 0.197 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2022 | ND              | 1.96 | 98.0       | 2.00          | 1.79  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2022 | ND              | 5.91 | 98.4       | 6.00          | 1.83  |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

| Chloride, SM4500CI-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            | 10/19/2022 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2022 | ND              | 209 | 105        | 200           | 5.87 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2022 | ND              | 210 | 105        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.2 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

|                   |                         |                     |                |
|-------------------|-------------------------|---------------------|----------------|
| Received:         | 10/18/2022              | Sampling Date:      | 10/17/2022     |
| Reported:         | 10/24/2022              | Sampling Type:      | Soil           |
| Project Name:     | ROJO 22-25 TANK BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C2012008              | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA                     |                     |                |

**Sample ID: SS03 .5' (H224889-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 1.92 | 96.1       | 2.00          | 2.27  |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 2.10 | 105        | 2.00          | 0.197 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2022 | ND              | 1.96 | 98.0       | 2.00          | 1.79  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2022 | ND              | 5.91 | 98.4       | 6.00          | 1.83  |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 10/19/2022 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2022 | ND              | 209 | 105        | 200           | 5.87 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2022 | ND              | 210 | 105        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

|                   |                         |                     |                |
|-------------------|-------------------------|---------------------|----------------|
| Received:         | 10/18/2022              | Sampling Date:      | 10/17/2022     |
| Reported:         | 10/24/2022              | Sampling Type:      | Soil           |
| Project Name:     | ROJO 22-25 TANK BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C2012008              | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA                     |                     |                |

**Sample ID: SS04 .5' (H224889-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 1.92 | 96.1       | 2.00          | 2.27  |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 2.10 | 105        | 2.00          | 0.197 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2022 | ND              | 1.96 | 98.0       | 2.00          | 1.79  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2022 | ND              | 5.91 | 98.4       | 6.00          | 1.83  |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 10/19/2022 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2022 | ND              | 209 | 105        | 200           | 5.87 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2022 | ND              | 210 | 105        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

|                   |                         |                     |                |
|-------------------|-------------------------|---------------------|----------------|
| Received:         | 10/18/2022              | Sampling Date:      | 10/17/2022     |
| Reported:         | 10/24/2022              | Sampling Type:      | Soil           |
| Project Name:     | ROJO 22-25 TANK BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C2012008              | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA                     |                     |                |

**Sample ID: SS05 .5' (H224889-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 1.92 | 96.1       | 2.00          | 2.27  |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 2.10 | 105        | 2.00          | 0.197 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2022 | ND              | 1.96 | 98.0       | 2.00          | 1.79  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2022 | ND              | 5.91 | 98.4       | 6.00          | 1.83  |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2022 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 10/19/2022 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2022 | ND              | 209 | 105        | 200           | 5.87 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2022 | ND              | 210 | 105        | 200           | 5.25 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2022 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

|                   |                         |                     |                |
|-------------------|-------------------------|---------------------|----------------|
| Received:         | 10/18/2022              | Sampling Date:      | 10/17/2022     |
| Reported:         | 10/24/2022              | Sampling Type:      | Soil           |
| Project Name:     | ROJO 22-25 TANK BATTERY | Sampling Condition: | Cool & Intact  |
| Project Number:   | 03C2012008              | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA                     |                     |                |

**Sample ID: SS06 .5' (H224889-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 1.92 | 96.1       | 2.00          | 2.27  |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2022 | ND              | 2.10 | 105        | 2.00          | 0.197 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2022 | ND              | 1.96 | 98.0       | 2.00          | 1.79  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2022 | ND              | 5.91 | 98.4       | 6.00          | 1.83  |           |
| Total BTEX     | <0.300 | 0.300           | 10/20/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>16.0</b> | 16.0            | 10/19/2022 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2022 | ND              | 209 | 105        | 200           | 5.87 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2022 | ND              | 210 | 105        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

|  |                                    |
|--|------------------------------------|
| Company Name: Ensolum, LLC                   | P.O. #:                            |
| Project Manager: <i>Holly Green</i>          | Company: <i>BTA 01</i>             |
| Address: 601 N. Marlandfield St. STE 400     | Attn: <i>Bob Hall</i>              |
| City: Midland                                | Address: <i>104 S Pecora St.</i>   |
| Phone #: <i>505 798 2608</i>                 | City: <i>Midland</i>               |
| <i>432-557-8895</i>                          | State: <i>TX</i> Zip: <i>79701</i> |
| Project #: <i>03C2012008</i>                 | Project Owner: <i>BTA</i>          |
| Project Name: <i>Kejo 22-25 Tank Battery</i> | State: <i>TX</i> Zip: <i>79701</i> |
| Project Location:                            | Phone #: <i>432-312-2203</i>       |
| Sampler Name: <i>Connor Whitman</i>          | Fax #:                             |

| Lab I.D.       | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX                              |                          |                          |                          |                          |                          |                          | DATE                     | TIME            | ANALYSIS    |                 |
|----------------|-------------|---------------------|-------------------|--------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------|-------------|-----------------|
|                |             |                     |                   |              | GROUNDWATER                         | WASTEWATER               | SOIL                     | OIL                      | SLUDGE                   | OTHER :                  | ACID/BASE:               |                          |                 |             | ICE / COOL      |
| <i>HC24889</i> | <i>5501</i> | <i>.5</i>           | <i>G</i>          | <i>1</i>     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>10/17/22</i> | <i>1235</i> | <i>Chloride</i> |
|                | <i>5502</i> | <i>.5</i>           | <i>G</i>          | <i>1</i>     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>10/17/22</i> | <i>1240</i> | <i>BTEX</i>     |
|                | <i>5503</i> | <i>.5</i>           | <i>G</i>          | <i>1</i>     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>10/17/22</i> | <i>1250</i> | <i>TPH</i>      |
|                | <i>5504</i> | <i>.5</i>           | <i>G</i>          | <i>1</i>     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>10/17/22</i> | <i>1255</i> |                 |
|                | <i>5505</i> | <i>.5</i>           | <i>G</i>          | <i>1</i>     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>10/17/22</i> | <i>1300</i> |                 |
|                | <i>5506</i> | <i>.5</i>           | <i>G</i>          | <i>1</i>     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>10/17/22</i> | <i>1305</i> |                 |

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|                                       |                                |                                   |
|---------------------------------------|--------------------------------|-----------------------------------|
| Relinquished By: <i>C. Atkin</i>      | Date: <i>10/17/22</i>          | Received By: <i>twor</i>          |
| Time: <i>10:00</i>                    |                                |                                   |
| Relinquished By: <i>AMW</i>           | Date: <i>10-18-22</i>          | Received By: <i>AMW</i>           |
| Time: <i>14:33</i>                    |                                |                                   |
| Delivered By: (Circle One) <i>AMW</i> | Observed Temp. °C: <i>5.4</i>  | Sample Condition: <i>Intact</i>   |
| Sampler - UPS - Bus - Other:          | Corrected Temp. °C: <i>4.8</i> | Checked By: (Initials) <i>AMW</i> |

Turnaround Time:  Standard  Rush

Thermometer ID #113

Corrosion Factor: *0.8°C*

Bacteria (only) Sample Condition:  Cool  Intact  Yes  No

Corrected Temp. °C

REMARKS: *Blennings@ensolum.com hgreen@ensolum.com*

Verbal Result:  Yes  No  Add'l Phone #:

All Results are emailed. Please provide Email address:



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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December 22, 2022

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROJO 22-25 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/19/22 14:19.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

|                   |                            |                     |                  |
|-------------------|----------------------------|---------------------|------------------|
| Received:         | 12/19/2022                 | Sampling Date:      | 12/15/2022       |
| Reported:         | 12/22/2022                 | Sampling Type:      | Soil             |
| Project Name:     | ROJO 22-25 TANK BATTERY    | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C2012008                 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA - 32.11186, -103.96366 |                     |                  |

**Sample ID: FS 01 @ 1' (H225989-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/21/2022 | ND               | 2.09 | 104        | 2.00          | 1.57  |           |
| Toluene*       | <0.050 | 0.050           | 12/21/2022 | ND               | 2.17 | 108        | 2.00          | 0.717 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/21/2022 | ND               | 2.09 | 105        | 2.00          | 2.16  |           |
| Total Xylenes* | <0.150 | 0.150           | 12/21/2022 | ND               | 6.50 | 108        | 6.00          | 0.518 |           |
| Total BTEX     | <0.300 | 0.300           | 12/21/2022 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>896</b> | 16.0            | 12/21/2022 | 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            | 12/21/2022 | ND              | 208 | 104        | 200           | 10.7 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/21/2022 | ND              | 221 | 111        | 200           | 10.5 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/21/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 68.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.7 % 46.3-178

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

|                   |                            |                     |                  |
|-------------------|----------------------------|---------------------|------------------|
| Received:         | 12/19/2022                 | Sampling Date:      | 12/15/2022       |
| Reported:         | 12/22/2022                 | Sampling Type:      | Soil             |
| Project Name:     | ROJO 22-25 TANK BATTERY    | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C2012008                 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA - 32.11186, -103.96366 |                     |                  |

**Sample ID: FS 02 @ 1' (H225989-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/21/2022 | ND               | 2.09 | 104        | 2.00          | 1.57  |           |
| Toluene*       | <0.050 | 0.050           | 12/21/2022 | ND               | 2.17 | 108        | 2.00          | 0.717 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/21/2022 | ND               | 2.09 | 105        | 2.00          | 2.16  |           |
| Total Xylenes* | <0.150 | 0.150           | 12/21/2022 | ND               | 6.50 | 108        | 6.00          | 0.518 |           |
| Total BTEX     | <0.300 | 0.300           | 12/21/2022 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 12/21/2022 | 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            | 12/21/2022 | ND              | 208 | 104        | 200           | 10.7 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/21/2022 | ND              | 221 | 111        | 200           | 10.5 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/21/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

|                   |                            |                     |                  |
|-------------------|----------------------------|---------------------|------------------|
| Received:         | 12/19/2022                 | Sampling Date:      | 12/15/2022       |
| Reported:         | 12/22/2022                 | Sampling Type:      | Soil             |
| Project Name:     | ROJO 22-25 TANK BATTERY    | Sampling Condition: | Cool & Intact    |
| Project Number:   | 03C2012008                 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | BTA - 32.11186, -103.96366 |                     |                  |

**Sample ID: SW 01 @ 0'-1' (H225989-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/21/2022 | ND               | 2.09 | 104        | 2.00          | 1.57  |           |
| Toluene*       | <0.050 | 0.050           | 12/21/2022 | ND               | 2.17 | 108        | 2.00          | 0.717 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/21/2022 | ND               | 2.09 | 105        | 2.00          | 2.16  |           |
| Total Xylenes* | <0.150 | 0.150           | 12/21/2022 | ND               | 6.50 | 108        | 6.00          | 0.518 |           |
| Total BTEX     | <0.300 | 0.300           | 12/21/2022 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 12/21/2022 | 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            | 12/20/2022 | ND              | 222 | 111        | 200           | 1.68 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/20/2022 | ND              | 195 | 97.3       | 200           | 5.06 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/20/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 95.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.8 % 46.3-178

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Engolum LLC  
 Project Manager: Hattie Green  
 Address: 3122 National Parks Hwy  
 City: Arts and Crafts  
 State: NM Zip: 88120  
 Phone #: 432-557-8895 Fax #:  
 Project #: 03C2012008 Project Owner:  
 Project Name: Rojo 22-25 Tank Battery  
 Project Location: 32.11186, -103.56366  
 Sampler Name: Peter Van Eatten  
 P.O. #: Company: BTA  
 Attn: Bob Hall  
 Address: 104 S Recos St  
 City: Midland  
 State: TX Zip: 79701  
 Phone #: 432-312-2203  
 Fax #:

| Lab I.D. | Sample I.D.    | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         | DATE  | TIME | ANALYSIS |
|----------|----------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|-------|------|----------|
|          |                |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : |       |      |          |
| H225989  | 1 ES01 @ 1'    | C 1               | 1            |             |            | V    |     |        |         | 12-15 | 1245 | Chloride |
|          | 2 FS02 @ 1'    | C 1               | 1            |             |            | V    |     |        |         | 12-15 | 1315 | BTEX     |
|          | 3 SW01 @ 0'-1' | C 1               | 1            |             |            | V    |     |        |         | 12-15 | 1320 | TPH      |

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Relinquished By: *Peter Van Eatten*  
 Date: 12-19-22  
 Time: 1419  
 Received By: *Spodriguery*  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Verbal Result:  Yes  No Add'l Phone #:  
 All Results are emailed. Please provide Email address:  
 hgreen@engolum.com, tworrissey@engolum.com

Delivered By: (Circle One) Observed Temp. °C: 2.91  
 Corrected Temp. °C: 2.31  
 Sample Condition:  Cool  Intact  
 Checked By: *SE*  
 Turnaround Time: \_\_\_\_\_ Standard   
 Rush   
 Bacteria (only) Sample Condition:  Cool  Intact  
 Corrected Temp. °C: \_\_\_\_\_

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



APPENDIX D

Final C-141s

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

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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2206753386 |
| District RP    |                |
| Facility ID    | fAPP2130123342 |
| 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) nAPP2206753386 |
| Contact mailing address: 104 S. Pecos St., Midland, TX 79701 |   |

### Location of Release Source

Latitude: 32.11186 Longitude: -103.56366

(NAD 83 in decimal degrees to 5 decimal places)

|                                    |   |
|------------------------------------|---|
| Site Name: Rojo 22-25 Tank Battery | Site Type: Production Equipment at Tank Battery |
| Date Release Discovered: 3/7/2022  | API# (if applicable) Nearest well:              |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| N           | 22      | 25S      | 33E   | Lea    |

Surface Owner:  State  Federal  Tribal  Private (Name:)

### Nature and Volume of Release

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

|  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> Crude Oil      | Volume Released (bbls) 5 BBL   | Volume Recovered (bbls) 4 BBL                                       |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 7 BBL   | Volume Recovered (bbls) 6 BBL                                       |
|  | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)   | Volume Recovered (bbls)   |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)  | Volume Recovered (Mcf)  |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                             |

Cause of Release

Dump Valve Failure.

Fluid cut a hole in the body of the water dump on the Rojo 31H separator. Release of oil/water mix under the vessel and onto the surrounding caliche pad and road. Fluid soaked where it sprayed toward the ground near the dump valve. Cold weather prevented fluid from soaking as it spread. Recovered 4 BO + 6 BW.

Form C-141

State of New Mexico  
Oil Conservation Division

Page 2

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2206753386 |
| District RP    |                |
| Facility ID    | fAPP2130123342 |
| Application ID |                |

|   |  |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                          |  |

### Initial Response

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

|  |
|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |
| If all the actions described above have <u>not</u> been undertaken, explain why:   |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |
| Printed Name: Bob Hall Title: Environmental Manager<br><br>Signature: <u></u> Date: 3/8/2022<br><br>email: bhall@btaoil.com Telephone: 432-682-3753   |
| <b><u>OCD Only</u></b><br><br>Received by: <u>Jocelyn Harimon</u> Date: <u>03/11/2022</u>  |

**Location** Rojo 31 Water Dump Cut Out  
**API #**  
**Spill Date** 3/7/2022

**Spill Dimensions**

**ENTER** - Length of Spill  feet  
**ENTER** - Width of Spill  feet  
**ENTER** - Saturation Depth of Spill  inches  
**ENTER** - Porosity Factor  decimal

**Oil Cut - Well Test / Vessel Throughput or Contents**

Oil   
 Water   
 Calculated Oil Cut

**Volume Recovered in Truck / Containment**

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

**Calculated Values**

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

**Calculated Values**

Total Release of Oil  BBL  
 Total Release of Water  BBL  
 Total Release  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

X Oil Cut  
 (or Water Cut)

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

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

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

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

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

CONDITIONS  
 Action 88326

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 | OGRID:<br>260297  |
|   | Action Number:<br>88326                                   |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| jharimon   | None      | 3/11/2022      |

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2206753386 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Site Assessment/Characterization

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

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | _51-100_ (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

Form C-141

State of New Mexico  
Oil Conservation Division

Page 4

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2206753386 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

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

Printed Name: Bob Hall Title: Environmental Manager  
 Signature: *Bob Hall* Date: 2/16/2023  
 email: bhall@btaoil.com Telephone: 432-682-3753

**OCD Only**

Received by: Jocelyn Harimon Date: 02/16/2023

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2206753386 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

### Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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: Bob Hall Title: Environmental Manager  
 Signature: *Bob Hall* Date: 2/16/2023  
 email: bhall@btaoil.com Telephone: 432-682-3753

**OCD Only**

Received by: Jocelyn Harimon Date: 02/16/2023

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: *Jennifer Nobui* Date: 02/28/2023  
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2209076202 |
| District RP    |                |
| Facility ID    | fAPP2130123342 |
| 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) nAPP2209076202 |
| Contact mailing address: 104 S. Pecos St., Midland, TX 79701 |   |

### Location of Release Source

Latitude: 32.11186 Longitude: -103.56366

(NAD 83 in decimal degrees to 5 decimal places)

|                                    |   |
|------------------------------------|---|
| Site Name: Rojo 22-25 Tank Battery | Site Type: Production Equipment at Tank Battery |
| Date Release Discovered: 3/17/2022 | API# (if applicable) Nearest well:              |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| N           | 22      | 25S      | 33E   | Lea    |

Surface Owner:  State  Federal  Tribal  Private (Name:)

### Nature and Volume of Release

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

|   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 10 BBL  | Volume Recovered (bbls) 3 BBL                            |
| <input type="checkbox"/> Produced Water       | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
|   | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate           | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas          | Volume Released (Mcf)  | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe)     | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                  |

Cause of Release

Valve Failure.

A leak from a failed gasket of a ball valve on the oil dump line of the Rojo 22 Fed Com 30H separator released an estimated 10 BO. Recovered 3 BO with vacuum truck, the remainder soaked into the sand under the vessel. The spill volume is based on the estimated volume of the drained oil-side of the separator as a rectangular container rather than as a portion of a horizontal cylinder.  $(6' \times 15' \times 0.6') / 5.615 = 10 \text{ BBL}$

State of New Mexico  
Oil Conservation Division

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2209076202 |
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|   |  |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                          |  |

### Initial Response

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

|  |
|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |
| If all the actions described above have <u>not</u> been undertaken, explain why:   |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |
| Printed Name: <b>Bob Hall</b> Title: <b>Environmental Manager</b><br><br>Signature: _____/s/ Bob Hall Date: <b>3/31/2022</b><br><br>email: <b>bhall@btaoil.com</b> Telephone: <b>432-682-3753</b>  |
| <b>OCD Only</b><br>Received by: <u>Jocelyn Harimon</u> Date: <u>04/01/2022</u>   |

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

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

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

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

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

CONDITIONS  
 Action 95124

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 | OGRID:<br>260297  |
|   | Action Number:<br>95124                                   |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| jharimon   | None      | 4/1/2022       |

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2209076202 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Site Assessment/Characterization

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

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | _51-100_ (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

Form C-141

State of New Mexico  
Oil Conservation Division

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|                |                |
|----------------|----------------|
| Incident ID    | nAPP2209076202 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

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

Printed Name: Bob Hall

Title: Environmental Manager

Signature: *Bob Hall*

Date: 2/16/2023

email: bhall@btaoil.com

Telephone: 432-682-3753

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2209076202 |
| District RP    |                |
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| Application ID |                |

### Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Bob Hall Title: Environmental Manager  
 Signature: *Bob Hall* Date: 2/16/2023  
 email: bhall@btaoil.com Telephone: 432-682-3753

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

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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**

CONDITIONS

Action 186995

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 | OGRID:<br>260297  |
|   | Action Number:<br>186995                                  |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition   | Condition Date |
|------------|---|----------------|
| jnobui     | Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A. | 2/28/2023      |