

October 7, 2024

New Mexico Oil Conservation Division

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

Re: Closure Request

Gem 4, 5, 7, 10 Battery, 8705 JV-P Incident Number nCH1903263128 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 excavation and soil sampling activities performed at the Gem 4, 5, 7, 10 Battery, 8705 JV-P (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan* (*Work Plan*), was to address impacts to soil resulting from a release of produced water at the Site. BTA is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number nCH1903263128.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 2, Township 20 South, Range 33 East, in Lea County, New Mexico and is associated with oil and gas exploration and production operations on New Mexico State Trust Land managed by the New Mexico State Land Office (NMSLO).

On December 7, 2018, a failure of a 45-degree connection on a 2.875-inch flowline that transports fluid to a saltwater disposal (SWD) well resulted in the release of 6 barrels (bbls) of produced water. Following the release, 1 bbl of free-standing produced water was recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Release Notification Form C-141 (Form C-141) on December 18, 2018. The release was assigned Incident Number nCH1903263128.

Following the release, BTA retained Trinity Oilfield Services and Rentals, LLC (Trinity) to assess the release extent. According to Trinity's Site Summary and Spill Remediation Proposal, dated August 21, 2019, Trinity was onsite between February 15, 2019, and April 2, 2019 to assess the release and to define the magnitude and extent of impacts. Trinity advanced 14 soil boreholes (SP-1 through SP-14) via hand auger and backhoe, to depths ranging from 0.5 feet to 16 feet bgs to assess impacts to soil. Based on soil borehole locations, the point of release was on the west side of the well pad and the extent included an area inside the earthen berm secondary containment and onto the south adjacent pasture (Figure 2). Laboratory analytical results indicated concentrations of BTEX in all submitted soil samples were compliant with the Closure Criteria. Concentrations of TPH in soil from all soil samples were in compliance with the Closure Criteria; however, the TPH concentration in borehole SP-2, at approximately 0.5 feet bgs, did exceed the reclamation requirement, indicating waste-containing soil is

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present in the adjacent pasture. Laboratory analytical results indicated chloride concentrations in soil from boreholes SP-4, SP-5, SP-8, SP-9, and SP-10 exceeded the Closure Criteria and/or reclamation requirement. While Trinity did propose excavation activities to address impacted soil documented at the Site, the proposal was not submitted to the NMOCD for approval. Based on the findings presented in Trinity's report, it appears additional delineation and remediation activities were warranted to address the December 2018 release.

BTA retained Ensolum to review the work completed in order to confirm or adjust Trinity's findings and address any remaining impacted soil or waste-containing soil in the pasture area. As such, a *Work Plan* was submitted on June 9, 2023, proposing additional delineation to confirm the presence or absence of impacts to soil and complete remediation activities. The *Work Plan* was approved by the NMOCD on July 7, 2023. A copy of the approved Work Plan, which includes the Trinity Site Summary and Spill Remediation Proposal, is included in Appendix A.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH)- gasoline range organics (GRO) and TPH diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

CULTURAL RESOURCE SURVEY

Since a portion of the historical release was identified in the pasture, the release location was assessed for determination of whether the release encroached into undisturbed areas to comply with the Cultural Properties Protection Rule (CPP) prior to disturbing the surface with mechanical equipment. An Archaeological Records Management System (ARMS) review was performed for the area of potential effect (APE) by Beaver Creek Archeology (BCA). Following a desktop review of the APE, BCA submitted a NMSLO Cultural Resources Cover Sheet (Cover Sheet) to the NMSLO Cultural Resource Office (CRO) stating the APE had not been previously surveyed. BCA did not recommend additional surveys for the following reason:

"Due to the location of the majority of the remediation area, on and immediately adjected to an existing pad, and the amount of previous disturbance, BCA does not recommend any additional archaeological work for this project as it is proposed."

The redacted Cover Sheet is included in Appendix B.



ADDITIONAL DELINEATION SOIL SAMPLING ACTIVITIES

As documented in the approved *Work Plan*, Trinity had identifed impacted and waste-containing soil at the Site following the December 7, 2018, produced water release. Between August 10, and August 11, 2023, Ensolum personnel completed additional assessment and delineation activities to confirm the presence or absence of impacted and/or waste-containing soil at the Site. Seven delineation soil samples were collected within and around Trinity soil sample locations at 0.5 feet bgs to assess the lateral extent of potential impacts or waste-containing soil. Delineation soil samples SS01, SS02, SS03C, SS04C, and SS07 were collected laterally to the north, south, east and west of potentially impacted soil identified by Trinity in 2019. Delineation soil sample SS05 was collected in the vicinity of Trinity soil sample SP-2 which identified waste containing soil in the pasture. 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. Photographic documentation of the delineation activities was completed, and a photographic log is included in Appendix C. The delineation soil samples were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

In addition, Ensolum personnel advanced delineation boreholes BH01 and BH04 via backhoe to a maximum depth of 16 feet bgs and BH02 via hand auger to a maximum depth of 5.5 feet bgs. No mechanical equipment could be utilized in the location of BH02, collected in the vicinity of Trinity soil sample SP-5, due to the presence of active production equipment, surface and subsurface production and electrical lines. Delineation borehole BH01 was collected in the pasture and delineation borehole BH04 was collected in the vicinity of Trinity soil samples SP-12 and SP-13. Discrete soil samples (BH01K/BH01P, BH02E, BH04/BH04F/BH04L) were collected from each pothole at depths ranging from 4 feet bgs to 16 feet bgs. Soil from the delineation soil samples was field screened for VOCs and chloride. Field screening results and observations for each pothole were documented on a lithologic/soil sampling log and are included as Appendix D. The soil sample locations are depicted on Figure 2.

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

Laboratory analytical results for delineation soil samples SS01, SS02, SS03C, SS04C, SS06 and SS07 indicate all COCs are compliant with the Closure Criteria and confirm the absence of impacted soil at the Site. In addition, the results for delineation soil samples SS01, SS02, SS03C and SS07 are compliant with the reclamation requirement and define the lateral extent of waste-containing soil on pad. Laboratory analytical results for all delineation borehole soil samples indicate all COCs are compliant with the Closure Criteria and confirm the absence of impacted soil in the subsurface to a maximum depth of 16 feet bgs. Laboratory analytical results for delineation soil sample SS05, collected in the pasture near Trinity soil sample SP-2 indicated that TPH concentrations exceeded the Closure Criteria and reclamation requirement in the pasture, confirming the presence of impacted and waste-containing soil in the pasture area. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

Based on a review of field screenings and laboratory analytical results, excavation of impacted and waste-containing soil in the pasture was warranted.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Ensolum completed excavation of TPH-impacted soil located in the vicinity of Trinity soil sample SP-2 and delineation soil sample SS05 on August 11, 2023. A backhoe and transport vehicles were utilized to complete the excavation to a total depth of 4 feet bgs. Following the removal of the impacted and waste-containing soil, confirmation soil 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. Confirmation floor soil sample FS01 was collected at 4 feet bgs and sidewall soil sample SW01 was collected at depths ranging from ground surface to 4 feet bgs. The confirmation soil samples were collected, handled, and submitted for analysis of all COCs as described above at Cardinal in Hobbs, New Mexico. The confirmation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation of the final excavation extent is provided in Appendix C.

The final excavation extent measured approximately 200 square feet. A total of approximately 30 cubic yards of impacted soil was removed during the excavation activies. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all excavation floor and sidewall samples indicated COC concentrations were compliant with the Closure Criteria. In addition, sidewall soil sample SW01, collected from ground surface to 4 feet bgs indicated all COC concentrations were compliant with the reclamation requirement, successfully defining the lateral extent of the waste-containing soil. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix E.

CLOSURE REQUEST

Excavation activities were conducted at the Site following delineation activities confirmed the presence of impacted soil in the pasture. Laboratory analytical results for all excavation soil samples collected indicate COC concentrations were compliant with the Closure Criteria and reclamation requirement applied in the top 4 feet. Based on the soil sample laboratory analytical results, no further remediation is required until major facility reconstruction or pad abandonment. The excavation was backfilled with material purchased locally and the area was recontoured to match pre-existing site conditions. The pasture area will be reseeded with the following NMSLO seed mix, as proposed in the approved in the *Work Plan* during the next NMSLO recommended planting season.

Common Name and Preferred Variety	Scientific Name	PLS Per Acre	
Annual Quick-cover Grass			
Oats	Avena sativa	1.00	
Cool Season Grass			
Western Wheatgrass	Agropyron smithii	2.50	
Warm-Season Grass			
Black or Blue Grama	Boutela gracilis var. Alma	1.50	
Little Bluestem	Schizachyrium scoparium	0.50	
Sand Dropseed	Sporobolus cryptandrus	0.50	
Sand Bluestem	Andropogon hallii	1.00	
Indiangrass	Sorghastrum nutans	0.50	

Sideoats Grama	Bouteloua curtipendula var. Vaughn	2.00
Wildflowers/ Forbs		
White prairie clover	Dalea candida	0.10
Scarlet globemallow	Sphaeralcea coccinea	0.10
Chia Sage	Salvia columbariae	0.10
Annual sunflower	Helianthus annuus	0.10
Annual buckwheat	Eriogonum annuum	0.10

Excavation of soil has mitigated impacts exceeding the Closure Criteria at the Site. Waste containing soil does exist at the Site on pad and will be removed during final abandonment or major reconstruction of the pad, whichever occurs first. Based on the delineation soil sample analytical results, approximately 300 cubic yards of soil exceeding the reclamation requirement in the top 4 feet on pad will be left in place. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nCH1903263128.

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

ashley L. ager

Principal

Ashley L. Ager, M.S., P.G.

Sincerely, **Ensolum, LLC**

Tacoma Morrissey, M.S. Associate Principal

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Ray Ramos, BTA

Nathan Sirgo, BTA NMSLO

Appendices:

CC:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 **Excavation Soil Sample Locations** Table 1 Soil Sample Analytical Results

Appendix A June 9, 2023 Remediation Work Plan NMSLO Cultural Resources Cover Sheet Appendix B

Appendix C Photographic Log

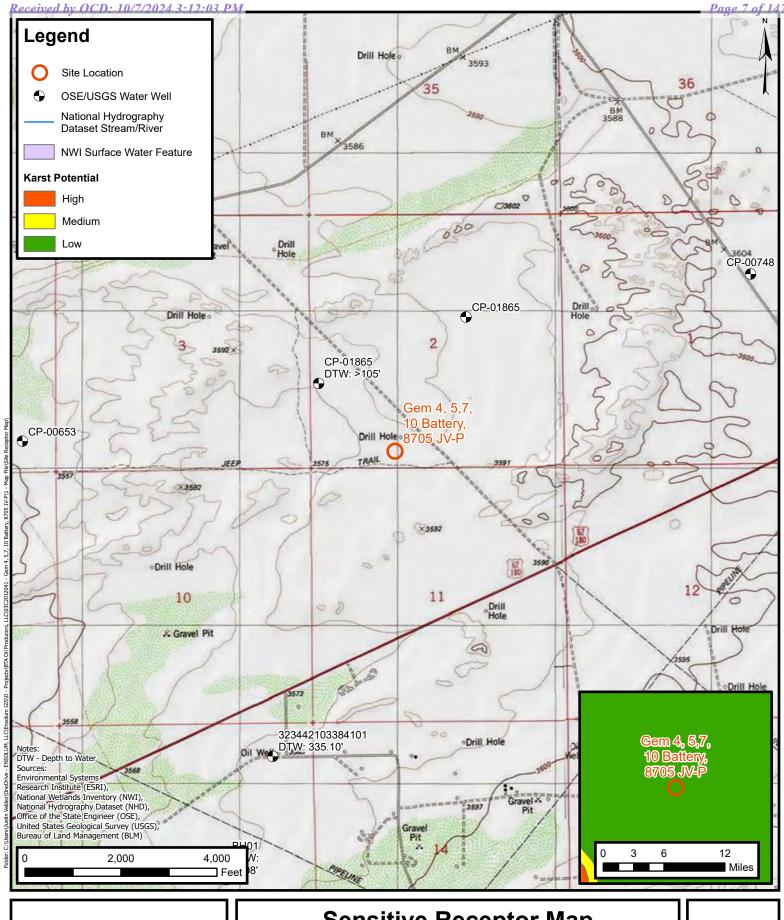
Appendix D Lithologic Soil Sampling Logs

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

Appendix F NMOCD Correspondence



FIGURES





Sensitive Receptor Map BTA Oil Producers, LLC

BTA Oil Producers, LLC Gem 4, 5,7, 10 Battery, 8705 JV-P Incident Number: nCH1903263128 Unit N, Sec 2, 20S, 33E Lea County, New Mexico FIGURE 1





Delineation Soil Sample Locations

BTA Oil Producers, LLC Gem 4, 5, 7, 10 Battery, 8705 JV-P Incident Number: nCH1903263128 Unit N, Sec 2, T20S, R33E Lea County, New Mexico FIGURE 2





Confirmation Soil Sample Locations

BTA Oil Producers, LLC Gem 4, 5, 7, 10 Battery, 8705 JV-P Incident Number: nCH1903263128 Unit N, Sec 2, T20S, R33E Lea County, New Mexico FIGURE 3



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Gem 4,5,7,10 Battery, 8705 JV-P BTA Oil Producers, LLC Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil Sa	mples				
SS01	08/10/2023	0.5	<0.050	<0.300	<10.0	<10.0	10.4	<10.0	10.4	208
SS02	08/10/2023	0.5	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SS03C	08/11/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SS04C	08/11/2023	0.5	<0.050	< 0.300	<10.0	267	257	267	524	336
\$\$05	08/11/2023	0.5	< 0.050	<0.300	<10.0	3,820	1,260	3,820	5,080	288
BH01K	08/10/2023	11	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
BH01P	08/10/2023	16	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,800
SS06	08/11/2023	0.5	<0.050	< 0.300	<10.0	235	239	235	474	496
SS07	08/11/2023	0.5	<0.050	<0.300	<10.0	19.1	18.0	19.1	37.1	304
BH02E	08/11/2023	5.5	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,480
BH04	08/10/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	960
BH04F	08/11/2023	6	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,040
BH04L	08/11/2023	12	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,080
				Confi	irmation Soil Sa	ımples				
SW01	08/11/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS01	08/10/2023	4	<0.050	<0.300	<10.0	19.7	12.5	19.7	32.2	1,300

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

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APPENDIX A

June 9, 2023 Remediation Work Plan



June 9, 2023

New Mexico Oil Conservation Division

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

Re: Remediation Work Plan

Gem 4, 5, 7, 10 Battery, 8705 JV-P Incident Number nCH1903263128 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared the following *Remediation Work Plan* (*Work Plan*) to document the release of produced water at the Gem 4, 5, 7, 10 Battery, 8705 JV-P (Site), present the Site Characterization identifying any potential sensitive receptors, and propose additional delineation and subsequent excavation activities related to documented impacted and waste-containing soil associated with Incident Number nCH1903263128.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 2, Township 20 South, Range 33 East, in Lea County, New Mexico (32.59584°, -103.63667°) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land managed by the New Mexico State Land Office (NMSLO).

On December 7, 2018, a failure of a 45-degree connection on a 2.875-inch flowline that transports fluid to a saltwater disposal (SWD) well resulted in the release of 6 barrels (bbls) of produced water. Following the release, 1 bbl of free-standing produced water was recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Release Notification Form C-141 (Form C-141) on December 18, 2018. The release was assigned Incident Number nCH1903263128.

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 Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the closest groundwater well data. The closest groundwater well with depth to groundwater data is New Mexico Office of the Sate Engineer (OSE) well number CP-01865, located approximately 0.4 miles northwest of the Site. On February 8, 2021, a borehole was advanced to 105 feet bgs and no water was encountered, confirming that groundwater beneath the Site is greater than 100 feet bgs. All

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wells used for depth to water determination are depicted on Figure 1 and the referenced well record for CP-01865 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an irrigation canal, located approximately 11,948 feet northwest 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 for the following chemicals of concern (COCs):

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) gasoline range organics (GRO) and TPH diesel range organics (DRO): 1,000 mg/kg
- Total TPH: 2,500 mg/kgChloride: 20,00 mg/kg

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

DELINEATIONS ACTIVITIES

Following the release, BTA retained Trinity Oilfield Services and Rentals, LLC (Trinity) to assess the release extent. According to Trinity's Site Summary and Spill Remediation Proposal, dated August 21, 2019 (Appendix B), Trinity was onsite between February 15, 2019 and April 2, 2019 to assess the release and to define the magnitude and extent of impacts. Trinity advanced 14 soil boreholes (SP-1 through SP-14) via hand auger and backhoe, to depths ranging from 0.5 feet to 16 feet bgs to assess impacts to soil. Based on soil borehole locations, the point of release was on the west side of the well pad and the extent included an area inside the earthen berm secondary containment and onto the south adjacent pasture (Figure 2). Laboratory analytical results indicated concentrations of BTEX in all submitted soil samples were compliant with the Closure Criteria. Concentrations of TPH in soil from all soil samples were in compliance with the Closure Criteria; however, the TPH concentration in borehole SP-2, at approximately 0.5 feet bgs, did exceed the reclamation requirement, indicating wastecontaining soil is present in the adjacent pasture. Laboratory analytical results indicated chloride concentrations in soil from boreholes SP-4, SP-5, SP-8, SP-9, and SP-10 exceeded the Closure Criteria and/or reclamation requirement. While Trinity did propose excavation activities to address impacted soil documented at the Site, the proposal was not submitted to the NMOCD for approval. Based on the findings presented in Trinity's report, it appears additional delineation and remediation activities are warranted to address the December 2018 release.

PROPOSED REMEDIAL ACTIONS

Based delineation activities completed by Trinity in 2019, Ensolum proposes to complete delineation of the release laterally and vertically and then remediate impacted and waste-containing soil to meet requirements set forth in 19.15.29 NMAC.



Cultural Resources Survey

Since the release entered the pasture, the release location will be assessed for determination of whether the release encroached into undisturbed areas to comply with the Cultural Properties Protection Rule (CPP) prior to disturbing the surface with mechanical equipment. The NMSLO will be notified of potential disturbance of the pasture on a Right of Entry Request for Remediation form. The request will include a copy of the Form C-141, a topographic location map, and a satellite image of the location. Ensolum will request an Archaeological Records Management System (ARMS) review be completed by the NMSLO to determine if prior cultural resources survey(s) overlap with the project area and if so, whether oversight by an approved archeologist would be required during disturbance activities. Fieldwork will be modified if cultural resources are present at a distance that could compromise those resources and any modifications of the following activities will be documented and relayed to the NMOCD and NMSLO prior to entering the pasture.

Proposed Additional Delineation Activities

Ensolum will complete additional delineation activities prior to any excavation in order to fully define the release extent. Below is a summary table of delineation sample locations that will be advanced via hand auger and/or backhoe, as applicable.

North North of borehole SP-14

East East of boreholes SP-9 and SP-10

South South of borehole SP-2

West West of borehole SP-10

Proposed Vertical Delineation Locations

Vertical depth greater than 6 feet bgs in the vicinity of borehole SP-5

Second depth in the vicinity of borehole SP-12 (first depth at 0.5 feet bgs)

Second depth in the vicinity of borehole SP-13 (first depth at 0.5 feet bgs)

Second depth in the vicinity of borehole SP-14 (first depth at 0.5 feet bgs)

TABLE 1 – PROPOSED DELINEATION PLAN

To adequately define the lateral extent of the release, soil samples from the locations described above and depicted on Figure 2 will be collected at 0.5 feet bgs confirm the release did not extend past the footprint previously identified. It should be noted that the lateral delineation soil samples south of borehole SP-2 will be completed with a hand auger until an ARMS review determined the remediation area has been properly assessed for potential presence of culture resources.

Ensolum will advance hand auger/backhoe borings in vertical delineation locations described above and depicted on Figure 2 until field screening results indicate concentrations of COCs in soil are in compliance with the Closure Criteria and/or reclamation requirement. A soil sample will be collected from each of the vertical delineation soil borings at the terminus of the soil boring, which will define the vertical extents of impacts.

All soil samples will be field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs. The soil sample locations will be mapped utilizing a handheld Global Positioning System (GPS) unit. Photographic documentation will be completed during the Site visit.



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

BTA will complete the delineation activities described above within 90 days of the date of approval of this *Work Plan* by the NMOCD.

Proposed Excavation Activities

Laboratory analytical results from Trinity's assessment activities in 2019 indicated concentrations of COCs exceeded the Closure Criteria and/or the reclamation requirement and it is determined that impacted and waste-containing soil is present. As such, Ensolum proposes to complete the following excavation activities:

- Excavation of waste-containing soil in the vicinity of borehole SP-2 to a depth of approximately 1-foot bgs;
- Excavation of waste-containing soil in the vicinity of boreholes SP-4 and SP-8 to a total depth of 4 feet bgs;
- Excavation of impacted soil in the vicinity of boreholes SP-9 and SP-10 to an approximate depth of 4 feet bgs;
- Excavation of impacted soil in the vicinity of borehole SP-5 to a depth to be determined by vertical delineation efforts described above. If impacts are documented to be greater than 8 feet bgs, BTA requests to excavate in this area to a depth of 4 feet bgs and install a 20-mil poly liner to prevent vertical migration of chloride impacts in the future instead of excavating all impacts to below the Closure Criteria;
- Following removal of impacted soil listed above, 5-point composite soil samples will be collected
 every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite
 samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable
 plastic bag and homogenizing the samples by thoroughly mixing. The composite soil samples
 will be handled and analyzed as described above; and
- In those areas where waste-containing soil is removed, representative sidewall samples will be collected and analyzed to verify all waste-containing soil has been removed per 19.15.29.13 NMAC.

Reclamation Plan

The southern portion of release went into the pasture and as such, reclamation requirements set forth in 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation will be applied. The following Reclamation Plan addresses reclamation of the off-pad excavation area and has been developed through review and application of the *Revegetation Guidelines Handbook for Southeastern New Mexico* – Version 1-1, authored by NMSLO and dated 2018, and 19.2.100.67 NMAC – *Surface Reclamation on State Oil and Gas Leases*:

 The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. A minimum of 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;



- Soil in the vicinity of the release in the pasture will be assessed for the proper application of *Table 3 Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico*;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed listed in the table below:

Common Name and Preferred Variety	Scientific Name	PLS Per Acre		
Annual Quick-cover Grass				
Oats	Avena sativa	1.00		
Cool Season Grass				
Western Wheatgrass	Agropyron smithii	2.50		
Warm-Season Grass				
Black or Blue Grama	Boutela gracilis var. Alma	1.50		
Little Bluestem	Schizachyrium scoparium	0.50		
Sand Dropseed	Sporobolus cryptandrus	0.50		
Sand Bluestem	Andropogon hallii	1.00		
Indiangrass	Sorghastrum nutans	0.50		
Sideoats Grama	Bouteloua curtipendula var. Vaughn	2.00		
Wildflowers/ Forbs				
White prairie clover	Dalea candida	0.10		
Scarlet globemallow	Sphaeralcea coccinea	0.10		
Chia Sage	Salvia columbariae	0.10		
Annual sunflower	Helianthus annuus	0.10		
Annual buckwheat	Eriogonum annuum	0.10		

- The seed mixture will be distributed with one or more of the following methods: push broadcaster seed spreader, tractor operated broadcast seed spreader, and/or drill seeding based on Site conditions and contractor availability;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management is not anticipated since the proposed excavation area is relatively
 flat; however, in the event erosion control management is necessary to support vegetation
 growth and minimize erosion until the root structures take hold, the application of the following
 best management practices (BMPs) could potentially include:
 - Prompt revegetation with mulching and contouring the ground surface to limit surface water flow;
 - The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation will be scheduled and communicated with NMSLO prior to initiation;



- Seeding is anticipated to be completed in the Fall when temperatures and precipitation are most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be the preferred timeframe for this Site:
- If seeding occurs outside of the 180 days approved in the current fully executed ROE Permit, a new ROE Permit will be executed prior to entering the pasture for reclamation activities;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent
 with local natural vegetation density. The Site will be inspected the following Fall to assess the
 success of regrowth. If necessary, an additional application of the NMSLO-approved pure live
 seed mixture will be applied as well as any needed BMPs will be installed to support growth and
 limit erosion; and
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

Schedule and Reporting

BTA will complete the remedial activities described above within 90 days of the date of approval of this *Work Plan* by the NMOCD. If laboratory analytical results indicate concentrations of all COCs are in compliance with the Closure Criteria and/or the reclamation requirement and it is determined that impacted soil is not present, a Closure Request will be prepared and submitted to the NMOCD for concurrence. If laboratory analytical results do indicate the presence of impacted soil in the vicinity of equipment and/or lines on pad, BTA will submit a Deferral Request for impacts that are left in-place and to be remediated when there is major Site reconstruction and/or the well pad is plugged and abandoned and the well pad is to be reclaimed.

BTA believes the scope of work described above will meet requirements set forth in 19.15.29.12 NMAC as well as stipulation set forth in 19.2.100.67 NMAC for reclamation of Sites on State Trust Land. These measures are believed to be protective of human health, the environment, and groundwater. As such, BTA respectfully requests approval of this *Work Plan* from NMOCD and NMSLO.

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 Daniel R. Moir, PG Senior Managing Geologist

cc: Kelton Beaird, BTA Nathan Sirgo, BTA

NMSLO ECO



Appendices:

Figure 1 Sensitive Receptor Map Figure 2 Proposed Remedial Actions Appendix A Referenced Well Records

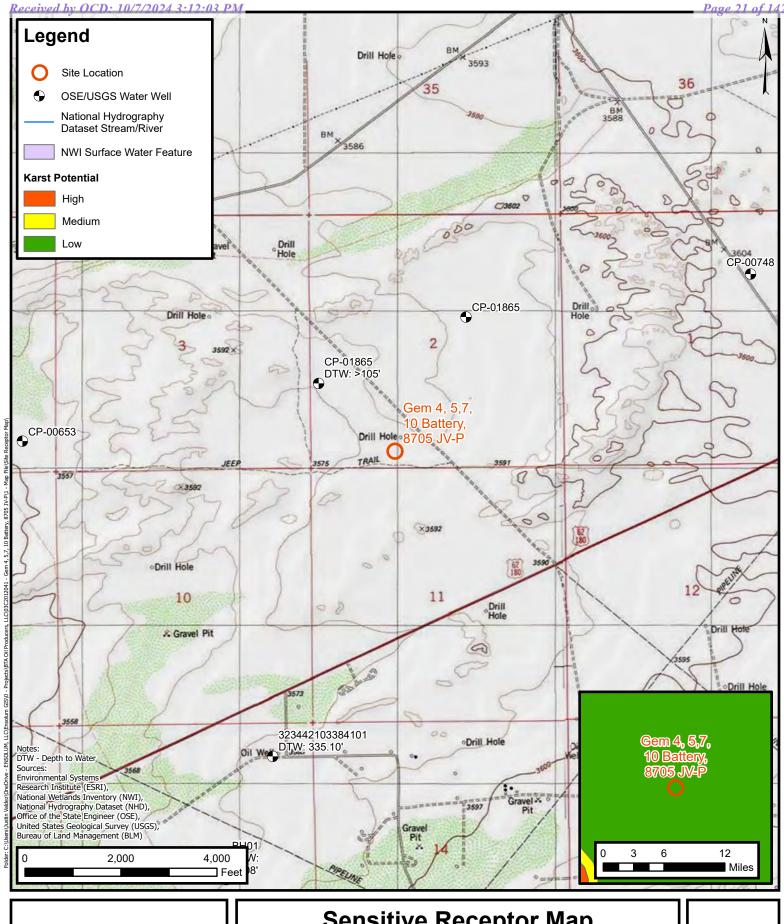
Appendix B Site Summary and Spill Remediation Proposal, dated August 21, 2019

Appendix C Form C-141





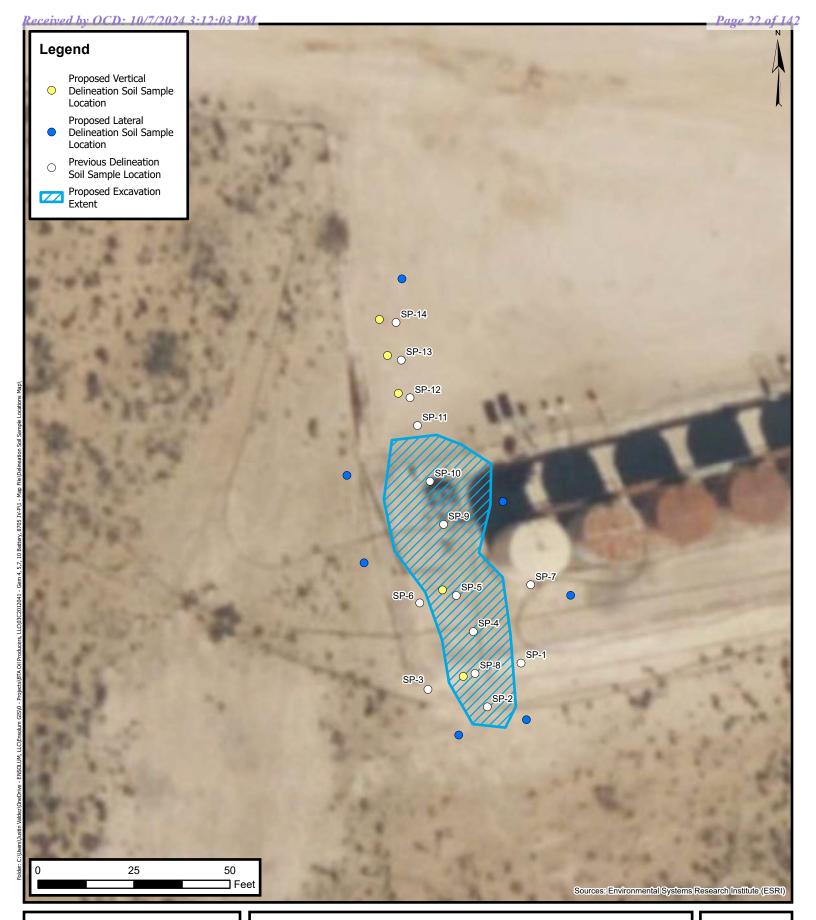
FIGURES





Sensitive Receptor Map BTA Oil Producers, LLC

BTA Oil Producers, LLC Gem 4, 5,7, 10 Battery, 8705 JV-P Incident Number: nCH1903263128 Unit N, Sec 2, 20S, 33E Lea County, New Mexico FIGURE 1





Proposed Remedial Actions

BTA Oil Producers, LLC Gem 4, 5,7, 10 Battery, 8705 JV-P Incident Number: nCH1903263128 Unit N, Sec 2, 20S, 33E Lea County, New Mexico FIGURE 2



APPENDIX A

Referenced Well Records

PAGE 1 OF 2

WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

OSE DIT JUL 22 2021 PM2:05

www.ose.state.nm.us OSE POD NO. (WELL NO.) OSE FILE NO(S). WELL TAG ID NO. POD2 CP-1865 CP-01865 WELL OWNER NAME(S) PHONE (OPTIONAL) BTA OIL PRODUCERS, LLC WELL OWNER MAILING ADDRESS CITY STATE ZIP 104 S PECOS ST MIDLAND TX 79701 DEGREES MINUTES SECONDS WELL 32 35 59 * ACCURACY REQUIRED: ONE TENTH OF A SECOND LOCATION N LATITUDE * DATUM REQUIRED: WGS 84 (FROM GPS) -103 38 w 30.4 LONGITUDE DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE LEA SECTION 2 TOWNSHIP 20S RANGE 33E

GENERAL AND WELL NAME OF WELL DRILLING COMPANY NAME OF LICENSED DRILLER LICENSE NO JACOB FRIESSEN VANGURD WD-1753 DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT) DRILLING STARTED DRILLING ENDED 105 2-8-21 2-8-21 105 STATIC WATER LEVEL IN COMPLETED WELL (FT) DRY HOLE COMPLETED WELL IS: ARTESIAN SHALLOW (UNCONFINED) DRILLING & CASING INFORMATION ADDITIVES - SPECIFY MUD DRILLING FLUID: ✓ AIR ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: DRILLING METHOD: CASING MATERIAL AND/OR DEPTH (feet bgl) BORE HOLE CASING CASING WALL SLOT CASING GRADE THICKNESS **FROM** TO DIAM CONNECTION INSIDE DIAM. SIZE (include each casing string, and TYPE (inches) (inches) (inches) (inches) note sections of screen) (add coupling diameter) BLANK PVC THREAD 2.375 2 .187 99 4.5 -1 SCREEN PVC **THREAD 2.375** 2 .187 02 99 105 4.5 DEPTH (feet bgl) **BORE HOLE** LIST ANNULAR SEAL MATERIAL AND AMOUNT METHOD OF PLACEMENT DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) RIAL FROM TO POURED GROUT 4.5

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FOR	OSE INTE	RNAL USE			WR-20 WELL RECORD & LC	G (Version 04/30/19)

WELL TAG ID NO.

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	DEPTH (TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	2	2	TOPSOIL	Y VN	
	2	21	19	CALICHE	Y VN	
	21	48	27	SAND	Y VN	
	48	66	18	RED CLAY	Y VN	
	66	77	11	SAND	Y VN	
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	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	PUM	Р Па	IR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm)	: 0.00
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6. SIGNA	2		5-	JACOB FRIESSEN	7-13-21	
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	
EOF	OCE INTERN	MAL TICE			II DECORD A COS CO	
LOR	OSE INTER	TAL USE			LL RECORD & LOG (V	ersion 04/30/2019)

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 2 OF 2

FILE NO.

LOCATION

ENSOLUM

APPENDIX B

Site Summary and Spill Remediation Proposal,

Dated August 21, 2019

Trinity Oilfield Services & Rentals, LLC



Environmental Site Summary & Spill Remediation Proposal

Site Name: Gem 4,5,7,10 Battery 8705 JV-P NMOCD Reference#: 1RP-5309
Surface Owner: State of New Mexico Mineral Owner: State of New Mexico
Unit Letter: N Section: 2 Township: 208 Range: 33E County: Lea GPS Coordinates: 32.59584 N -103.63667
Date/Time of Release: 12/7/2018 Type of Release: □ Crude Oil ☑ Produced Water
Volume(s) Released: 6 bbls Volume(s) Recovered: 1 bbl
Closure Criteria for Impacted Soil (mg/kg; See Appendix C, "Closure Criteria Justification"):
Benzene: 10 BTEX: 50 GRO+DRO: 1,000 TPH: ☐ 100 Chloride: ☐ 600 ☐ 10,000 ☐ 20,000 Background Information:
On December 7, 2018, BTA Oil Producers, LLC (BTA), discovered a release at the Gem 4,5,7,10 Battery, 8705 JV-P. Failure of a 45-degree connection on a 2-7/8-inch steel flowline from the battery to the salt water disposal (SWD) well resulted in the release of approximately 6 barrels (bbls) of produced water, which breached the earthen containment berm surrounding the battery. The spill and overspray affected a total area of the containment, caliche pad, and adjace pasture measuring approximately 2,030 square feet. During initial response activities, the failed connection was repaire and a vacuum truck was utilized to recover approximately 1 bbl of free-standing liquid. The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office on December 18, 2018. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. General photographs of the release site are provided in Appendix B. A "Site Location Map" is provided as Figure 1.

Summary of Field Activities:

On February 15, 2018, a hand auger was utilized to advance a series of 15 boreholes (SP-1 through SP-15) in the inferred impacted areas inside the containment area, on the caliche pad, and in the adjacent pasture to investigate the extent of impacted soil. The auger holes were advanced to total depths ranging from approximately 6 inches (SP-1 through SP-3, SP-5 through SP-7, and SP-9 through SP-14) to 6 feet (SP-4) below ground surface (bgs). Soil samples were collected at 6-inch to 1-foot vertical intervals and field-screened with a chloride test kit. Representative confirmation samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of chloride, total petroleum hydrocarbons (TPH), and/or benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively. Laboratory analytical results and field screens indicated the release may have commingled with a historical release (or releases), and additional delineation was required to determine the extent of chloride contamination. However, vertical delineation of TPH and BTEX contamination had been achieved.

On February 18, 2019, a backhoe was utilized to advance a delineation trench in the area represented by auger hole SP-8 to further investigate the vertical extent of chloride contamination in the pasture. The trench was advanced to a total depth of approximately 13 feet bgs. Soil samples were collected at 1- to 2-foot vertical intervals and field-screened with a chloride test kit. Representative confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated delineation of TPH and BTEX contamination had been achieved. However, additional delineation was required to determine the extent of chloride contamination.

On March 8, 2019, a hand auger was utilized to re-enter auger holes SP-5, SP-9, SP-10, and SP-11 to further investigate the vertical extent of chloride contamination in those areas. The auger holes were advanced to total depths ranging from 5.5 feet (SP-9) to 6 feet bgs (SP-5, SP-10, and SP-11). Soil samples were collected at 1- to 2-foot vertical intervals and field-screened with a chloride test kit. Representative confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated delineation of

Trinity Oilfield Services & Rentals, LLC



Environmental Site Summary & Spill Remediation Proposal

Summary of Field Activities (cont.):

TPH and BTEX contamination had been achieved. However, additional delineation was required to determine the extent of chloride contamination in the area represented by auger hole SP-5.

On April 2, 2019, a backhoe was utilized to advance a delineation trench in the area represented by auger holes SP-4 and SP-5 (which are less than 10 feet apart), as well as re-enter and further advance delineation trench SP-8. The trenches were advanced to total depths ranging from approximately 13 feet (SP-4) to 16 feet (SP-8) bgs. Soil samples were collected at 1- to 2-foot vertical intervals and field-screened with a chloride test kit. Representative confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated delineation of chloride, TPH, and BTEX contamination had been achieved.

Locations of the auger holes and delineation trenches are depicted in Figure 2, "Site Plan". Laboratory analytical results are summarized in Table 1, and analytical reports are provided in Appendix D. Chloride field test results are summarized in Table 2.

Proposed Activities:

BTA proposes to conduct the following activities to progress the Gem 4,5,7,10 Battery, 8705 JV-P release site to an NMOCD- and NMSLO-approved closure:

- The areas represented by auger holes SP-10 and SP-11 will be excavated to a total depth of 2 feet bgs.
- The area represented by auger hole/delineation trench SP-4 will be excavated as necessary to remove all visibly stained soil, with anticipated depths ranging from 2 to 4 feet bgs.
- The areas represented by auger holes/delineation trenches SP-5, SP-8, and SP-9 will be excavated to total depths of 4 feet bgs. The excavations will be advanced horizontally to the areas represented by auger holes SP-1, SP-2, SP-3, SP-6, and SP-7. Representative 5-point composite soil samples will be collected from the sidewalls of the excavations and submitted to Cardinal Laboratories for confirmatory analyses of chloride, TPH, and BTEX concentrations using the EPA analytical methods listed in the "Summary of Field Activities" above. Each composite sample will represent an area measuring no larger than 200 square feet.
- No excavation or additional remediation will be conducted in the areas represented by auger holes SP-12, SP-13, and SP-14.
- All excavated soil will be stockpiled on 6-mil plastic, pending transfer to to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal.
- The total volume of impacted soil to be excavated is approximately 226 cubic yards.
- All open excavations will be fenced off during periods of inactivity to prevent injury to oilfield personnel, livestock, and/or wildlife.
- Following remediation activities, the excavation(s) will be backfilled with locally acquired, non-impacted material, compacted, and contoured to fit the surrounding topography. Prior to backfilling, 20-mil, impermeable, plastic liners and felt padding will be installed on the floors of the excavations in the areas represented by auger holes/delineation trenches SP-5 and SP-8. These engineered controls will serve to inhibit vertical migration of contaminants remaining in-situ.
- The aforementioned corrective actions will be completed within 45 days of receipt of approval of this proposal by the NMOCD and NMSLO. Upon completion of the proposed tasks, a "Remediation Summary & Closure Request" will be submitted to the NMOCD and NMSLO, documenting remediation activities and results of confirmation soil samples.

Trinity Oilfield Services & Rentals, LLC

TRINITY OH FIELD SERVICES

8/21/2019

Ben J. Arguijo

Project Manager

Environmental Site Summary & Spill Remediation Proposal

Enclosures:

Figure 1: Site Location Map

Figure 2: Site Plan

Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil

Table 2: Field Tests

Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Photographs

Appendix C: Closure Criteria Justification
Appendix D: Laboratory Analytical Results

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Figures

Site Location Map P.O. Box 2587 BTA Oil Producers, LLC 2,000 Hobbs, NM 88241 Gem 4,5,7,10 Battery, 8705 JV-P Drawn By: BJA Checked By: JEH Distance in Feet Lea County, New Mexico NMOCD Reference #: 1RP-5309 March 26, 2019 Scale: 1" = 2,000' Released to Imaging: 10/8/2024 8:22:20 AM



Tables

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BTA OIL PRODUCERS, LLC GEM 4,5,7,10 BATTERY, 8705 JV-P LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-5309



					EPA SW-	846 Metho	d 8021B		EPA SW-846 Method 8015M				EPA 300	
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	GRO+ DRO (mg/kg)	MRO C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg)
NMO	CD Closure	Limit (mg/kg)		10	NE	NE	NE	50	NE	NE	1,000	NE	2,500	20,000
SP-1	6"	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SP-2	6"	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	112	112	85.5	198	192
SP-3	6"	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SP-4 @ 4.5'	4.5'	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,000
SP-4 @ 6'	6'	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	15,600
SP-4 @ 7'	7'	4/2/2019	In-Situ	-	-	-	-	-	-	-	-	-	-	1,280
SP-4 @ 8'	8'	4/2/2019	In-Situ	-	-	-	-	-	-	-	-	-	-	7,760
SP-4 @ 10'	10'	4/2/2019	In-Situ	-	-	-	-	-	-	-	-	-	-	6,480
SP-4 @ 13'	13'	4/2/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,760
SP-5	6"	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	17,400
SP-5 @ 2'	2'	3/8/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	27,600
SP-5 @ 6'	6'	3/8/2019	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	26,400
														,
SP-6	6"	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP-7	6"	2/15/2019	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
		3, 10, 20, 10			101000	101000	.011.00							
SP-8 @ 4'	4'	2/18/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,960
SP-8 @ 13'	13'	2/18/2019	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,120
SP-8 @ 14'	14'	4/2/2019	In-Situ	-	-	-	-	-	-	-	-	-	-	2,360
SP-8 @ 16'	16'	4/2/2019	In-Situ	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	880
		, , , , , ,												
SP-9	6"	2/15/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	21,600
SP-9 @ 2'	2'	3/8/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	34,000
SP-9 @ 5.5'	5.5'	3/8/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3.200
2. 0 0 0.0	0.0	2,0,20.0	53	10.000	10.000	10.000	1000	10.000	1.0.0	1.0.0	1.0.0	1.0.0	1.0.0	3,233
SP-10	6"	2/15/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	25,200
SP-10 @ 4'	4'	3/8/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,080
SP-10 @ 6'	6'	3/8/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7.200
5. 10 0 0	J	5/5/2515	iii oka	10.000	10.000	10.000	30.100	.0.000	110.0	110.0	110.0	110.0	110.0	7,200
SP-11	6"	2/15/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2.240
SP-11 @ 2.5'	2.5'	3/8/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,760
SP-11 @ 6'	6'	3/8/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	97.6	97.6	<10.0	97.6	4,320
01-11 @ 0	U	3/0/2019	III-OILU	\0.000	<u> </u>	<u> </u>	<0.100	\0.300	× 10.0	31.0	31.0	×10.0	37.0	4,320

NE = Not established

- = Not analyzed

Concentrations in **BOLD** exceed the NMOCD Closure Limit

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BTA OIL PRODUCERS, LLC GEM 4,5,7,10 BATTERY, 8705 JV-P LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-5309



					EPA SW-846 Method 8021B				EPA SW-846 Method 8015M					EPA 300
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	GRO+ DRO (mg/kg)	MRO C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg)
NMOCD Closure Limit (mg/kg)			10	NE	NE	NE	50	NE	NE	1,000	NE	2,500	20,000	
SP-12	6"	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
SP-13	6"	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,800
SP-14	6"	2/15/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,320

^{- =} Not analyzed

TABLE 2 FIELD TESTS

BTA OIL PRODUCERS, LLC GEM 4,5,7,10 BATTERY, 8705 JV-P LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-5309



				HACH QUANTAB	
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	CHLORIDE (mg/Kg)	
NMOCD	20,000				
SP-1 @ 6"	6"	2/15/2019	In-Situ	292	
<u> </u>					
SP-2 @ 6"	6"	2/15/2019	In-Situ	228	
SP-3 @ 6"	6"	2/15/2019	In-Situ	168	
SP-4 @ 2.5'	2.5'	2/15/2019	In-Situ	3,408	
SP-4 @ 4.5'	4.5'	2/15/2019	In-Situ	6,076	
SP-4 @ 6'	6'	2/15/2019	In-Situ	10,884	
SP-5 @ 6"	6"	2/15/2010	In-Situ	11,888	
SP-5 @ 6" SP-5 @ 2'	2'	2/15/2019 3/8/2019	In-Situ In-Situ	11,888	
SP-5 @ 2 SP-5 @ 3'	3'	3/8/2019	In-Situ In-Situ	12,736	
SP-5 @ 5 SP-5 @ 4'	<u> </u>	3/8/2019	In-Situ In-Situ	6,256	
SP-5 @ 5'	5'	3/8/2019	In-Situ	15,636	
SP-5 @ 6'	6'	3/8/2019	In-Situ	10,524	
51 -5 € 0	U	3/0/2019	III-Oitu	10,324	
SP-6 @ 6"	6"	2/15/2019	In-Situ	<128	
<u> </u>	Ü	2/10/2010	III Olla	1120	
SP-7 @ 6"	6"	2/15/2019	In-Situ	292	
SP-8 @ 6"	6"	2/15/2019	In-Situ	1,156	
SP-8 @ 1'	1'	2/15/2019	In-Situ	1,240	
SP-8 @ 2'	2'	2/15/2019	In-Situ	1,156	
SP-9 @ 6"	6"	2/15/2019	In-Situ	19,276	
SP-9 @ 2'	2'	3/8/2019	In-Situ	15,636	
SP-9 @ 4'	4'	3/8/2019	In-Situ	11,560	
SP-9 @ 5.5'	5.5'	3/8/2019	In-Situ	1,432	
SP-10 @ 6"	6"	2/15/2019	In-Situ	17,376	
SP-10 @ 2'	2'	3/8/2019	In-Situ	3,824	
SP-10 @ 4'	4'	3/8/2019	In-Situ	7,396	
SP-10 @ 6'	6'	3/8/2019	In-Situ	6,256	
CD 11 @ 6"	C!!	0/45/0040	In City	4.004	
SP-11 @ 6"	6"	2/15/2019	In-Situ	1,924	
SP-11 @ 2' SP-11 @ 4'	2' 4'	3/8/2019	In-Situ In-Situ	3,824 2,500	
SP-11 @ 4 SP-11 @ 6'	6'	3/8/2019 3/8/2019	In-Situ In-Situ	2,300	
OI -11 @ U	U	3/0/2019	III-Oitu	2,720	
SP-12 @ 6"	6"	2/15/2019	In-Situ	1,332	
<u>.</u>		_, 13, 2010	5.1.0	1,502	
SP-13 @ 6"	6"	2/15/2019	In-Situ	4,348	
				.,,,,,,	
SP-14 @ 6"	6"	2/15/2019	In-Situ	1,924	

Appendices

Appendix A Release Notification & Corrective Action (Form C-141)

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NCH1903263128
District RP	1RP-5309
Facility ID	
Application ID	pCH1903263832

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 # NCH1903263128 GEM 4, 5, 7, 10
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	BATTERY, 8705 JV-P @ 30-025-31209

Location of Release Source

Latitude: 32.59584° Longitude: -103.63667°

(NAD 83 in decimal degrees to 5 decimal places)

ate Release	Discovered	: 12/7/2018		API# (if applicable) Nearest well: Gem #4 API #30-025				
Jate Release	Discovered	. 12/7/2010		Al III (y	applicable) Nealest well. Getti 1	74 AIT#30 025 51205		
Unit Letter	Section	Township	Range	Co	ounty			
N	2	20S	33E	Lea				
urface Owne	r: 🛛 State	Federal T	ribal 🗌 Private	(Name:	2)		
			Nature ar	nd Volume o	f Release			
	Materia	al(s) Released (Select	all that apply and atta	ch calculations or spec	ific justification for the volumes pr	ovided below)		
Crude Oi	1	Volume Releas	ed (bbls)		Volume Recovered (bb	ls)		
☑ Produced Water Volume Released (ed (bbls) 6 BBL		Volume Recovered (bb	ls) 1 BBL			
		Is the concentra	tion of dissolved >10,000 mg/l?	chloride in the	☐ Yes ☐ No			
Condensa	ate	Volume Releas	ed (bbls)		Volume Recovered (bb	ls)		
Natural C	as	Volume Releas	ed (Mcf)		Volume Recovered (M	cf)		
Other (de	escribe)	Volume/Weigh	t Released (provi	ide units)	Volume/Weight Recov	ered (provide units)		
	2000							
Cause of Rel	casc		0 = /0// ()	ملح مسانيمما مسالي	e Gem 4, 5, 7, 10 Batte	n, 9705 IV D+bat		
Cause of Rel	45 degre	e connection i	n a 2-778″ tlov	viine leaving in	e dem 4. D. 7. IV baue	IV. 07UD JV-F LIIAL		

Received by OCD: 10/7/2024 3:12:03 PM Form C-141 State of New Mexico

Page 2

Oil Conservation Division

Page 40	of 142
---------	--------

	1 1180 10 0/ 1
Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ⊠ No	
If YES, was immediate not	ice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible pa	arty must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the relea	se has been stopped.
	been secured to protect human health and the environment.
<u> </u>	re been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	overable materials have been removed and managed appropriately.
Per 19.15.29.8 B. (4) NMA	above have <u>not</u> been undertaken, explain why: AC the responsible party may commence remediation immediately after discovery of a release. If remediation narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
	area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are re public health or the environmental failed to adequately investigat	nation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Bob Hall	Title: Environmental Manager
Signature: Buli-	Date: 12/18/2018
email: bhall@btaoil.co	m Telephone: 432-682-3753
	EIVED ernandez at 5:27 pm, Feb 01, 2019

Appendix B Photographs

BTA Oil Producers, LLC – Gem 4,5,7,10 Battery, 8705 JV-P

Unit Letter "N" (SE/SW), Section 2, Township 20S, Range 33E



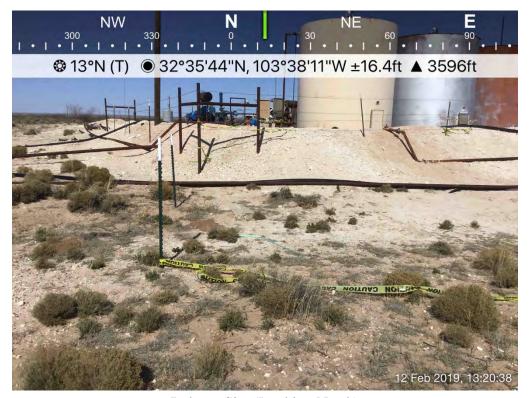
Release (Looking South-Southwest)



Release (Looking Southwest)

BTA Oil Producers, LLC - Gem 4,5,7,10 Battery, 8705 JV-P

Unit Letter "N" (SE/SW), Section 2, Township 20S, Range 33E



Release Site (Looking North)



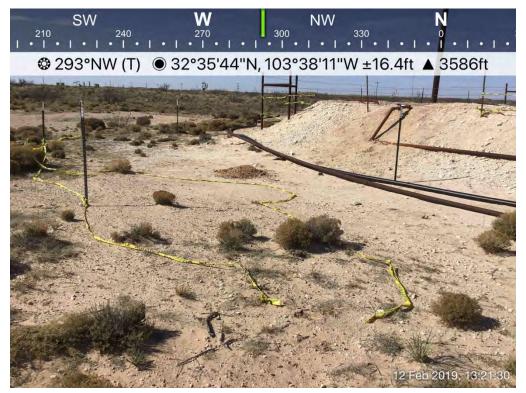
Release site (Looking Northeast)

BTA Oil Producers, LLC – Gem 4,5,7,10 Battery, 8705 JV-P

Unit Letter "N" (SE/SW), Section 2, Township 20S, Range 33E



Release Site (Looking East-Northeast)



Release Site (Looking West-Northwest)

Appendix C Closure Criteria Justification

TABLE 3 CLOSURE CRITERIA JUSTIFICATION

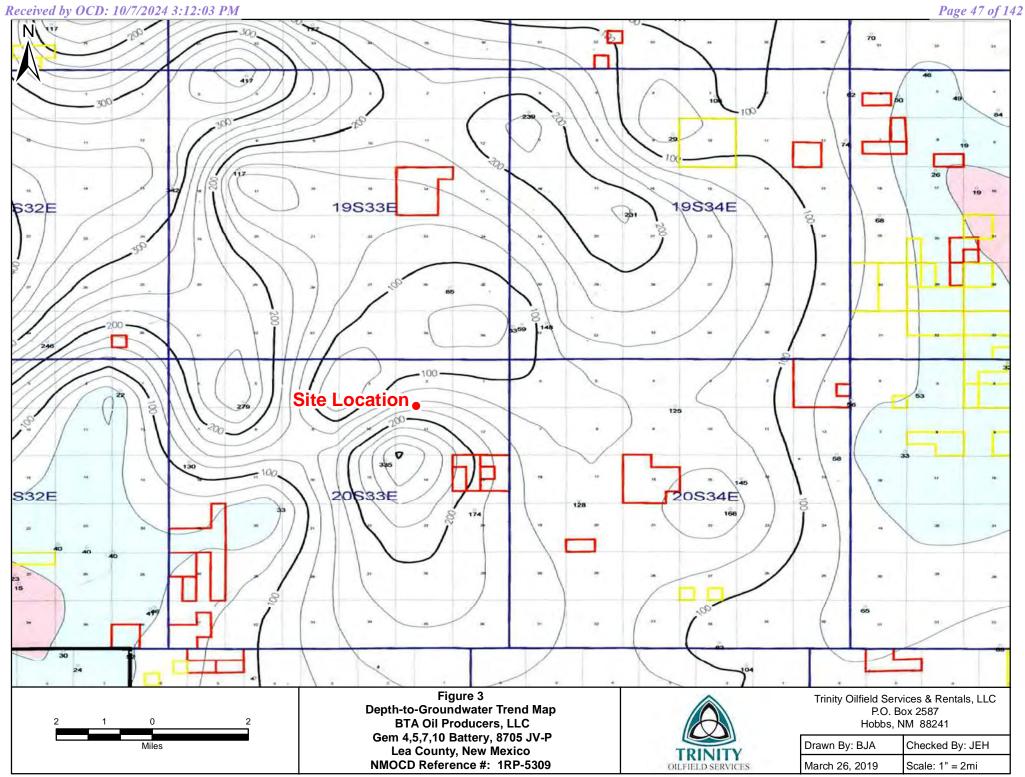
BTA OIL PRODUCERS, LLC GEM 4,5,7,10 BATTERY, 8705 JV-P LEA COUNTY, NEW MEXICO NMOCD REF. #: 1RP-5309

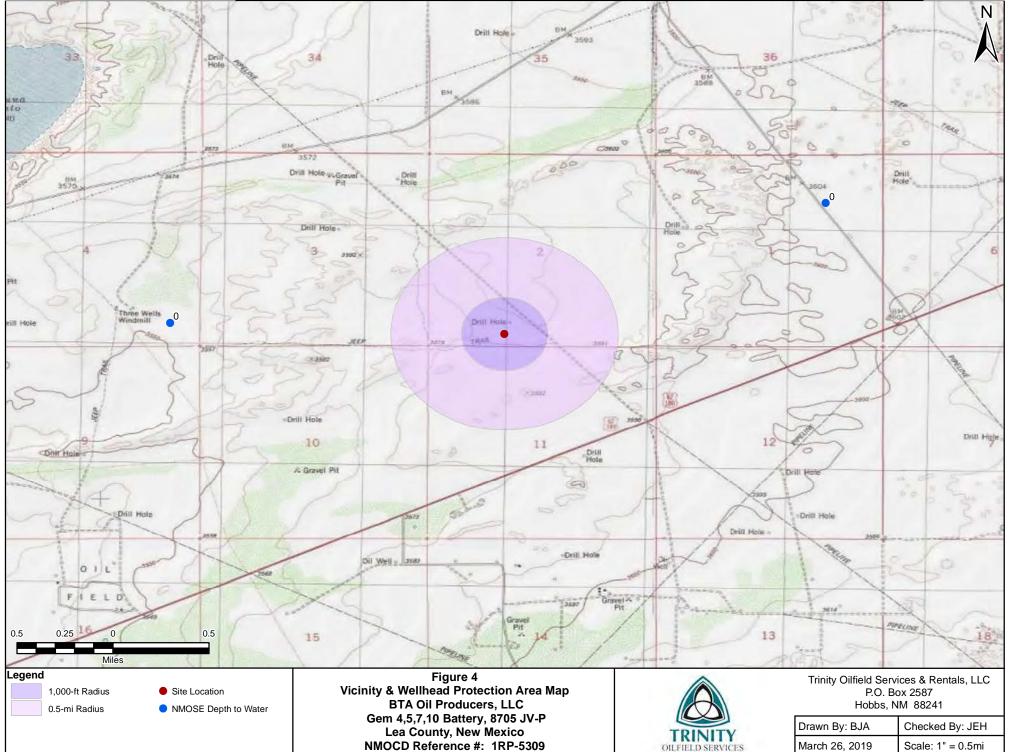


Groundwater, Water Wells & Other Water Sources						
Depth to groundwater (ft)?	160-165					
Horizontal distance (ft) from all water sources within 0.5 miles?	N/A					
Within 500' of a spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
Within 1000' of any fresh water well or spring?	No					
Surface Water						
Horizontal distance (ft) to nearest significant watercourse?	>1,000					
Within 300' of any continuously flowing watercourse or any other significant watercourse?	No					
Within 200' of any lakebed, sinkhole or playa lake?	No					
Human-Occupied, Environmental & Other Areas						
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
Within 300' of an occupied permanent residence, school, hospital, institution or church?	No					
Within 300' of a wetland?	No					
Within the area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplain?	No					

Closure Criteria (mg/kg)*								
Benzene	BTEX	GRO + DRO	TPH	Chloride				
10	50	1,000	2,500	20,000				

^{*}Numerical limits or natural background level, whichever is greater







New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 627939.18 Northing (Y): 3607303.25 Radius: 1610 (1 mile)

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

Appendix D Laboratory Analytical Reports



February 28, 2019

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: GEM 4,5,7,10 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/21/19 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC BEN ARGUIJO

P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 1 (H900697-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/25/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2019	ND	191	95.3	200	1.12	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	228	114	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					
Surrogate: 1-Chlorooctane	95.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 2 (H900697-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/25/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	112	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	85.5	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	81.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.6	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 3 (H900697-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/25/2019	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	106 9	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: BTA - LEA CO NM

Sample ID: SP - 4 @ 4.5' (H900697-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	02/25/2019	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	105 9	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 4 @ 6' (H900697-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	02/25/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	99.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 5 (H900697-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17400	16.0	02/25/2019	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	95.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	99.1	% 37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA - LEA CO NM

ma/ka

Sample ID: SP - 6 (H900697-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	•						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 7 (H900697-08)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	106 9	37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/18/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: BTA - LEA CO NM

Sample ID: SP - 8 @ 4' (H900697-09)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	95.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	101 9	% 37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/18/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 8 @ 13' (H900697-10)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	?						
Surrogate: 1-Chlorooctadecane	112	% 37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA - LEA CO NM

ma/ka

Sample ID: SP - 9 (H900697-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2019	ND	1.91	95.3	2.00	4.32	
Toluene*	<0.050	0.050	02/27/2019	ND	2.10	105	2.00	2.86	
Ethylbenzene*	<0.050	0.050	02/27/2019	ND	2.25	113	2.00	5.16	
Total Xylenes*	<0.150	0.150	02/27/2019	ND	6.43	107	6.00	4.22	
Total BTEX	<0.300	0.300	02/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	•						
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC BEN ARGUIJO

P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA - LEA CO NM

ma/ka

Sample ID: SP - 10 (H900697-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2019	ND	1.94	97.0	2.00	2.34	
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81	
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82	
Total BTEX	<0.300	0.300	02/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	•						
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 11 (H900697-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2019	ND	1.94	97.0	2.00	2.34	
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81	
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82	
Total BTEX	<0.300	0.300	02/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	110 9	37.6-14	7						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC **BEN ARGUIJO**

P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 12 (H900697-14)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2019	ND	1.94	97.0	2.00	2.34	
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81	
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82	
Total BTEX	<0.300	0.300	02/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	107 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	112 9	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 13 (H900697-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2019	ND	1.94	97.0	2.00	2.34	
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81	
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82	
Total BTEX	<0.300	0.300	02/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	112 9	37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC BEN ARGUIJO

P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 02/21/2019 Sampling Date: 02/15/2019

Reported: 02/28/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA - LEA CO NM

ma/ka

Sample ID: SP - 14 (H900697-16)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2019	ND	1.94	97.0	2.00	2.34	
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81	
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82	
Total BTEX	<0.300	0.300	02/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	02/25/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2019	ND	218	109	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/25/2019	ND	237	119	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	02/25/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	•						
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

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

ecovery.

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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Page 19 of 20

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Released to Imaging: 10/8/2024 8:22:20 AM

Company Name:	Trinity Oilfield Services & Rentals,	LLC							BI	LL TO					ANALYSIS REQUEST
Project Manager:	Ben J. Arguijo						P.	P.O. #:							
Address: P.O. Box 2587							Co	Company: BTA Oil Producers, LLC							
City: Hobbs State: NM Zip: 88241							At	Attn: Bob Hall							
Phone #: (575)3	390-7208 Fax #:						Ac	dres	ss:	104 S. Per	cos St.	1			
							City: Midland								
Project Name:	Gem 4,5,7,10 Battery								TX		79701	2	18)		
Project Location:								ione		(432)682		95	802	9	
Sampler Name:	The state of the s							x #:		(402)002	-3733	TPH (8015M)	BTEX (8021B)	Chloride	
FOR LAB USE ONLY					MAT	RIX	110	1000	SERV.	SAMPLI	NG	를	3TE	SH SH	
Lab I.D. H900697	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME				
1	SP-1	G	1		X				Х	2/15/19	0905	X	X	Х	
2	SP-2	G	1		X				X	2/15/19	0908	Х	X	Х	
3	SP-3	G	1		X				X	2/15/19	0909	Х	X	Х	
4	SP-4 @ 4.5'	G	1		X				Х	2/15/19	1057	X	Х	Х	
5	SP-4 @ 6'	G	1		X				X	2/15/19	1200	Х	X	Х	
4	SP-5	G	1		X				X	2/15/19	1122	Х	X	X	
7	SP-6	G	1		X				х	2/15/19	1503	X	Х	X	
.8	SP-7	G	1		X				Х	2/15/19	1500	X	Х	Х	
.8	SP-8 @ 4'	G	1		X				X	2/18/19	1057	Х	Х	X	
10	SP-8 @ 13'	G	1		X		1		X	2/18/19	1615	X	Х	х	

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Relinquished By:	Date:	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Tesh Holeub Relinquished By:	Time: Date: Time:	Received By: Received By:	REMARKS: Call for BTEX instructions.
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	5.22	Sample Condition CHECKED BY: Cool Intact (Initials)	Please e-mail results to ben@trinityoilfieldservices.com

FORM-006 Revision 1.0

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Page 20 of 20

Received by OCD: 10/7/2024 3:12:03 PM

ARDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Released to Imaging: 10/8/2024 8:22:20 AM

Trinity Oilfield Services & Rentals,	LLC								BI	LL TO					ANALYSIS REQUEST
Ben J. Arguijo							P.0	P.O. #:					TR		
Address: P.O. Box 2587							Co	Company: BTA Oil Producers, LLC							
State: NM	Zip:	88	3241				-								
390-7208 Fax #:									:		1.00		(I I		
B. C. L.							100000000000000000000000000000000000000								
Gem 4,5,7,10 Battery							10		TX			E	1B)		
Lea Co., NM										10.000		915	802	o l	
Josh Halcomb									•	(432)002	0/00	8) H	×	orid	
				M	ATF	RIX	1. 0.		ERV.	SAMPLII	NG	4 🖺	BTE		
Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER:	ACID/BASE:	OTHER:	DATE	TIME				
SP-9	G	1		3	X)	(2/15/19	1345	Х	Х	X	
SP-10	G	1			X			>	(2/15/19	1349	X	Х	Х	
SP-11	G	1			Х			>	(2/15/19	1355	Х	Х	Х	
SP-12	G	1		;	X			>	(2/15/19	1454	X	Х	Х	
SP-13	G	1			X			>	(2/15/19	1522	X	Х	Х	
SP-14	G	1		1	X			>	(2/15/19	1555	X	Х	Х	
	-				1										
					İ										
		3													
	Ben J. Arguijo Box 2587 State: NM Boy-7208 Fax #: Project Owner Gem 4,5,7,10 Battery Lea Co., NM Josh Halcomb Sample I.D. SP-9 SP-10 SP-11 SP-12 SP-13 SP-14	State: NM Zip: 390-7208 Fax #: Project Owner: BT Gem 4,5,7,10 Battery Lea Co., NM Josh Halcomb Gem 4,5,7,10 Battery Co., NM Josh Halcomb Gem 4,5,7,10 Battery Gem 4,5,7,10 Battery	State: NM Zip: 88 State: NM Zip: 88 State: NM Zip: 88 State: NM Zip: 88 State: NM Zip: 87 State: NM Zip: 88 State: NM Stat	State: NM	State: NM	State: NM	State: NM Zip: 88241	Sample I.D. Sample I.D. Sample I.D. Sp-10 Sp-11 Sp-12 Sp-13 Sp-14 Sp	Sample I.D. Sample I.D. Sep-10 Sep-11 Sep-12 Sep-13 Sep-14 Sep-14	Ben J. Arguijo	Ben J. Arguijo	Ben J. Arguijo Brown 2587 Company: BTA Oil Producers, LLC	Ben J. Arguijo	Ben J. Arguijo	Ben J. Arguijo

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable

Relinquished By:	Date: Date: Time: Received By:	Phone Result:
Relinquished By:	Date: Received By:	Call for BTEX instructions. Please e-mail results to ben@trinityoilfieldservices.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact (Initials) Since I Yes Yes No No No	Please e-mail results to ben@timityoimeldservices.com

FORM-006 Revision 1.0



March 15, 2019

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: GEM 4,5,7,10 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/11/19 10:50.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC BEN ARGUIJO

P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 03/11/2019 Sampling Date: 03/08/2019

Reported: 03/15/2019 Sampling Type: Soil Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Coo

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By me

Project Location: BTA - LEA CO NM

Sample ID: SP - 5 @ 2' (H900958-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEX	<0.300	0.300	03/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	03/14/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0 10.0		03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142	,						
Surrogate: 1-Chlorooctadecane	110	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 03/11/2019 Sampling Date: 03/08/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: BTA - LEA CO NM

mg/kg

Sample ID: SP - 5 @ 6' (H900958-02)

BTEX 8021B

DIEX OUZID	iiig/	, kg	Andryzo	u by. III3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEX	<0.300	0.300	03/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	03/14/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	,						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 03/11/2019 Sampling Date: 03/08/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: BTA - LEA CO NM

ma/ka

Sample ID: SP - 9 @ 2' (H900958-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEX	<0.300	0.300	03/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	03/14/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	•						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 03/11/2019 Sampling Date: 03/08/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: BTA - LEA CO NM

Sample ID: SP - 9 @ 5.5' (H900958-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEX	<0.300	0.300	03/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	03/14/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	106 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	111 9	% 37 6-1 <i>4</i>	7						

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keine



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587

HOBBS NM, 88241 Fax To: NONE

Received: 03/11/2019 Sampling Date: 03/08/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: BTA - LEA CO NM

Sample ID: SP - 10 @ 4' (H900958-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEX	<0.300	0.300	03/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	03/14/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	108 9	37.6-14	7						

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03/08/2019

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 03/11/2019 Sampling Date:

Reported: 03/15/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: BTA - LEA CO NM

Sample ID: SP - 10 @ 6' (H900958-06)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. III3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEX	<0.300	0.300	03/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	03/14/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142							
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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03/08/2019

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 03/11/2019 Sampling Date:

Reported: 03/15/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: BTA - LEA CO NM

Sample ID: SP - 11 @ 2.5' (H900958-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEX	<0.300	0.300	03/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	03/14/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	•						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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Celey D. Keene



03/08/2019

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

Sampling Date:

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 03/11/2019

Reported: 03/15/2019 Sampling Type: Soil

Project Name: Sampling Condition: Cool & Intact GEM 4,5,7,10 BATTERY Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 11 @ 6' (H900958-08)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEX	<0.300	0.300	03/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/14/2019	ND	416	104	400	3.77	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	97.6	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	?						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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Notes and Definitions

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

ecovery.

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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Page 11 of 11

Received by OCD: 10/7/2024 3:12:03 PM

RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Released to Imaging: 10/8/2024 8:22:20 AM

Company Nar	ne: Trinity Oilfield Services &	Rentals, LLC								BI	LL TO					ANA	LYSIS	S REC	QUES	T	
Project Mana	ger: Ben J. Arguijo							P.O.	#:					mail							
Address: P	.O. Box 2587							Con	npany	/: BT	A Oil Produ	cers, LLC									
City: Hobb	s State	e: NM Zip	: 88	8241				Attn			Bob Hall										
Phone #: (5	575)390-7208 Fax	#:					П	1	ress:	2	104 S. Pec										
Project #:	Proje	ect Owner: BT	A Oi	il Pro	oduce	rs, LL	C	City			Midland										
Project Name	: Gem 4,5,7,10 Battery						П	-	e: 7	ΓX		79701	<u>S</u>	1B)	o l				1		
Project Locat	ion: Lea Co., NM							1907	ne #:		(432)682-		(8015M)	3TEX (8021B)	Chloride						
	e: Josh Halcomb					_		Fax			(402)002	3733	8)	×	읝						
FOR LAB USE ONLY	distribution				M	ATRIX	(- 4505	PRESE	RV.	SAMPLI	NG	TPH	BTE	0						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE	TIME									
	/ SP-5 @ 2'	G	1		2	X			X		3/8/19	0844	Х	X	Х						E
	Z SP-5 @ 6'	G	1)	X			X		3/8/19	1210	Х	Х	Х						
	3 SP-9 @ 2'	G	1)	X			X		3/8/19	0901	Х	Х	X						
	Y SP-9 @ 5.5'	G	1		3	X			X		3/8/19	1049	Х	X	Х						
	SP-10 @ 4'	G	1)	X			X		3/8/19	1011	Х	Х	Х						
	6 SP-10 @ 6'	G	1			X			X	11	3/8/19	1055	Х	Х	Х			-			
	7 SP-11 @ 2.5'	G	1)	X			X		3/8/19	0924	Х	Х	Х						
	8 SP-11 @ 6'	G	1)	X			X		3/8/19	1103	Х	X	Х						
														Ti I					540		

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Relinquished By: Relinquished By:	Date: Receiv	ed By: MUOTO D ed By:	Slacken	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ N ☐ Yes ☐ N	- Pare 10 11-11-111
	Time:			Pleas	e e-mail resu	ults to ben@trinityoilfieldservices.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.4 E #97	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)			

FORM-006 Revision 1.0



April 12, 2019

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: GEM 4,5,7,10 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/10/19 9:07.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587

HOBBS NM, 88241 Fax To: NONE

 Received:
 04/10/2019
 Sampling Date:
 04/02/2019

 Reported:
 04/12/2019
 Sampling Type:
 Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 4 @ 7' (H901298-01)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result 400 Chloride 1280 16.0 04/11/2019 ND 100 400 3.92

Sample ID: SP - 4 @ 8' (H901298-02)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 7760 16.0 04/11/2019 ND 400 100 3.92

Sample ID: SP - 4 @ 10' (H901298-03)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 6480 16.0 04/11/2019 ND 400 3.92 400 100

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC BEN ARGUIJO

P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 04/10/2019 Sampling Date: 04/02/2019

Reported: 04/12/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: BTA - LEA CO NM

mg/kg

Sample ID: SP - 4 @ 13' (H901298-04)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2019	ND	1.93	96.4	2.00	7.46	
Toluene*	<0.050	0.050	04/10/2019	ND	1.97	98.4	2.00	8.17	
Ethylbenzene*	<0.050	0.050	04/10/2019	ND	1.98	99.1	2.00	9.97	
Total Xylenes*	<0.150	0.150	04/10/2019	ND	5.86	97.6	6.00	10.1	
Total BTEX	<0.300	0.300	04/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	04/11/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2019	ND	209	104	200	0.845	
DRO >C10-C28*	<10.0	10.0	04/10/2019	ND	194	97.2	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	04/10/2019	ND					
Surrogate: 1-Chlorooctane	96.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	92.8	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

BEN ARGUIJO P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 04/10/2019 Sampling Date: 04/03/2019

Reported: 04/12/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

Sample ID: SP - 8 @ 14' (H901298-05)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	04/11/2019	ND	400	100	400	3.92	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC **BEN ARGUIJO**

P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 04/10/2019 Sampling Date: 04/03/2019

Reported: 04/12/2019 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: BTA - LEA CO NM

Sample ID: SP - 8 @ 16' (H901298-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2019	ND	1.93	96.4	2.00	7.46	
Toluene*	<0.050	0.050	04/10/2019	ND	1.97	98.4	2.00	8.17	
Ethylbenzene*	<0.050	0.050	04/10/2019	ND	1.98	99.1	2.00	9.97	
Total Xylenes*	<0.150	0.150	04/10/2019	ND	5.86	97.6	6.00	10.1	
Total BTEX	<0.300	0.300	04/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/11/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2019	ND	209	104	200	0.845	
DRO >C10-C28*	<10.0	10.0	04/10/2019	ND	194	97.2	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	04/10/2019	ND					
Surrogate: 1-Chlorooctane	91.8	% 41-142	!						
Surrogate: 1-Chlorooctadecane	89.6	% 37.6-14	7						

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Celey D. Keene



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Page 7 of 7 RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Released to Imaging: 10/8/2024 8:22:20 AM

Company Name:	Trinity Oilfield Services & Rentals	LLC						BILL TO ANALYSIS REQUEST														
Project Manager:	Ben J. Arguijo						F	2.0.	#:		-				- 1	117.4						
Address: P.O. B	3ox 2587							Company: BTA Oil Producers, LLC														
City: Hobbs	State: NM	Zip	88	241				Attn: Bob Hall														
Phone #: (575)3	90-7208 Fax #:							36.21.2	ress:		104 S. Ped											
Desire A. Desire				-	City:	3171710		Midland										1				
Project Name: 0	Gem 4,5,7,10 Battery								e: T)	Y	-130,914,014	79701	Ê	1B)			1			4		
Project Location:	Lea Co., NM					-	71		ne #:	^	(432)682-		015	302	ride							
Sampler Name: D								ax			(432)002-	3/33	TPH (8015M)	3TEX (8021B)	Chloride							
FOR LAB USE ONLY					MA	TRIX			RESE	RV.	SAMPLII	NG	直	토 분 o			1		1		1	
Lab I.D. H901 298	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME										
	SP-4 @ 7'	G	1		X		= 1		X		4/2/19	0911			Х							
2	SP-4 @ 8'	G	1		X				X		4/2/19	0944			х		-					
3	SP-4 @ 10'	G	1		X				Х		4/2/19	1023			X			-	11			
4	SP-4 @ 13'	G	1		X				X		4/2/19	1104	Х	х	X	1 1						
5	SP-8 @ 14'	G	1	1 -	X				X		4/3/19	1121			X							
6	SP-8 @ 16'	G	1		X				X		4/3/19	1435	Х	X	X			y				
								Ž									1 0	E E				
	amages. Cardinal's liability and client's exclusive remedy for																					

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: Received By:	Phone Result:
Lariel Kasler	Time: 9:07	REMARKS:
Fell & Palvaero	Date: 4/10/19 Time: 9:07 Received By: Autora Make	Please e-mail results to ben@trinityoilfieldservices.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact (Initials) 4.9 #97 No No	Trouble of thair results to be negativity of includer vices. com

FORM-006 Revision 1.0



APPENDIX C

Form C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NCH1903263128
District RP	1RP-5309
Facility ID	
Application ID	pCH1903263832

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 # NCH1903263128 GEM 4, 5, 7, 10
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	BATTERY, 8705 JV-P @ 30-025-31209

Location of Release Source

Latitude: 32.59584° Longitude: -103.63667°

Site Name: Gem 4, 5, 7, 10 Battery, 8705 JV-P

(NAD 83 in decimal degrees to 5 decimal places)

Site Type: Tank Battery

Unit Letter	Section	Township	Range	Co	winty				
	-	1			ounty				
N	2	20S	33E	Lea					
urface Owne	er: 🛛 State	☐ Federal ☐ T	Tribal Private	(Name:					
			Nature a	nd Volume of	f Release				
	Materia	nl(s) Released (Select	all that apply and atta	ach calculations or speci	fic justification for the volumes provide	d below)			
Crude Oi	1	Volume Releas	ed (bbls)		Volume Recovered (bbls)				
Produced	☐ Produced Water Volume Released (bbls) 6 BBL				Volume Recovered (bbls) 1 BBL				
Is the concentration of dissolved chloride produced water >10,000 mg/l?				d chloride in the	☐ Yes ☐ No				
Condensa	Condensate Volume Released (bbls)				Volume Recovered (bbls)				
Natural C	Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)				
Other (de	escribe)	Volume/Weigh	t Released (provi	ide units)	Volume/Weight Recovered	(provide units)			
Cause of Rel									

Received by OCD: 10/7/2024 3:12:03 PM Form C-141 State of New Mexico

Page 2

Oil Conservation Division

 D	0.1	- 1	٠,	10
 Page	91	oj	1	42

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major If release as defined by 19.15.29.7(A) NMAC?	YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ⊠ No	
If YES, was immediate notic	the given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible party	y must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the release	e has been stonned.
	een secured to protect human health and the environment.
· ·	been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	verable materials have been removed and managed appropriately.
If all the actions described ab	bove have not been undertaken, explain why:
has begun, please attach a na	C the responsible party may commence remediation immediately after discovery of a release. If remediation arrative of actions to date. If remedial efforts have been successfully completed or if the release occurred rea (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are requestions all operators are requestions and public health or the environment failed to adequately investigate as	tion given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and uired to report and/or file certain release notifications and perform corrective actions for releases which may endanger it. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Bob Hall	Title: Environmental Manager
Signature: Pulifa	Date: 12/18/2018
email: bhall@btaoil.com	Telephone: 432-682-3753
OCD Only Received by: Received by:	IVED rnandez at 5:27 pm, Feb 01, 2019

Page 92 of 142

Incident ID nCH1903263128
District RP 1RP-5309
Facility ID
Application ID pCH1903263832

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?	>105 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🗓 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗓 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🏻 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🏻 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🏻 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🔀 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🏻 No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🔀 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	Is.

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 Page 4

State of New Mexico Oil Conservation Division

Incident ID	nCH1903263128
District RP	1RP-5309
Facility ID	
Application ID	pCH1903263832

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

Printed Name: Kelton Beaird

Title: Environmental Manager

Date: 432-312-2203

Telephone: 432-312-2203

OCD Only

Received by: _____ Date: _____

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	nCH1903263128
District RP	1RP-5309
Facility ID	
Application ID	pCH1903263832

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 ☑ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation points ☐ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Kelton Beard Title: Environmental Manager Date: 432-312-2203 Telephone: 432-312-2203
OCD Only
Received by: Date:
Approved
Signature: Date:



APPENDIX B

NMSLO Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(app	(i	f ap	plic	able
-------	----	------	------	------

Exhibit Type (select one)	(if applicable)
ARMS Inspection/Review - Summarize the	results (select one):
current standards and no cultu (B) The entire area of potential eff current standards and cultural (C) The entire area of potential eff	fect or project area has been previously surveyed to ural properties were found within the survey area. Fect or project area has been previously surveyed to properties were found within the survey area. Fect or project area has not been previously surveyed or ent standards. A complete archaeological survey will be eview.
Archaeological Survey	
Findings:	
☐ Negative - No further archaeological☐ Positive - Have avoidance and protest	al review is required. ection measures been devised? Select one:
existing pad, and the amount of previ archaeological work for this project as	the remediation area, on and immediately adjacent to an ous disturbance, BCA does not recommend any additional it is proposed.
Project Details:	
NMSLO Lease Number (if available):	sala a da
Cultural Resources Consultant: Beaver Creek A	
Project Proponent (Applicant): Ensolum on beh	nalf of BTA Oil Producers
Project Title/Description: BTA Oil Producers' Ge	em 4, 5, 7, 10 Battery, 8705 JV-P Remediation
Project Location:	
County(ies): Lea	
PLSS/Section/Township/Range): T20S R33E	E S2
For NMSLO Agency Use Only:	
NMSLO Lease Number:	Acknowledgment-Only:
Lease Analyst:	
Date Exhibit Routed to Cultural Resources Office:	
No person may after the wording of the questions or layout of the	cover sheet. The completion of this cover sheet by itself does not sutherize

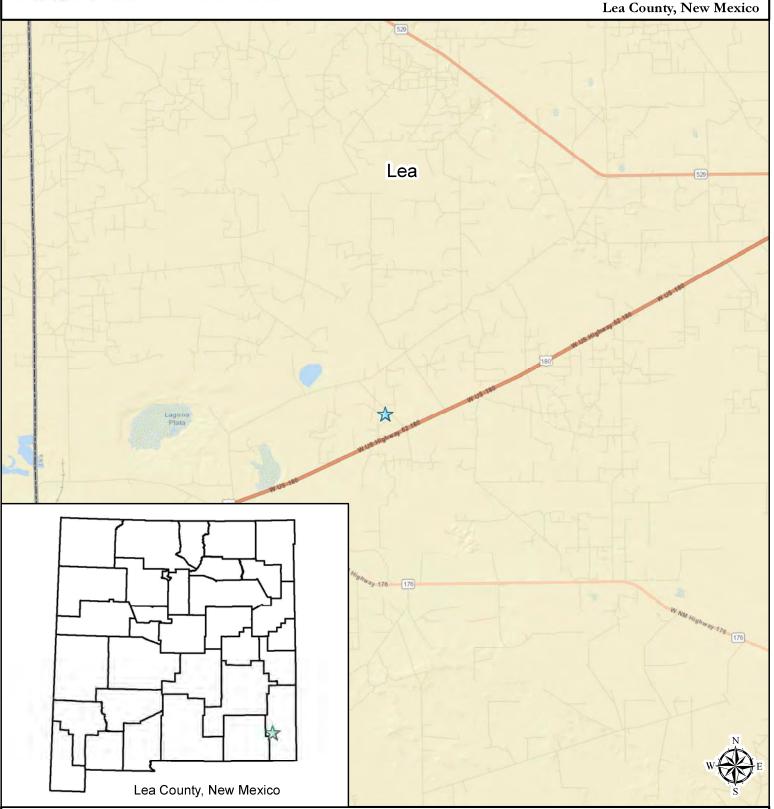
No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

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Gem 4, 5, 7, 10 Battery, 8705 JV-P Ensolum, LLC T20S R33E Sec. 2 Laguna Gatuna(1984) Quad. Map Upper Pecos-Black Drainage Lea County, New Mexico

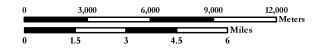


Legend



Project Location

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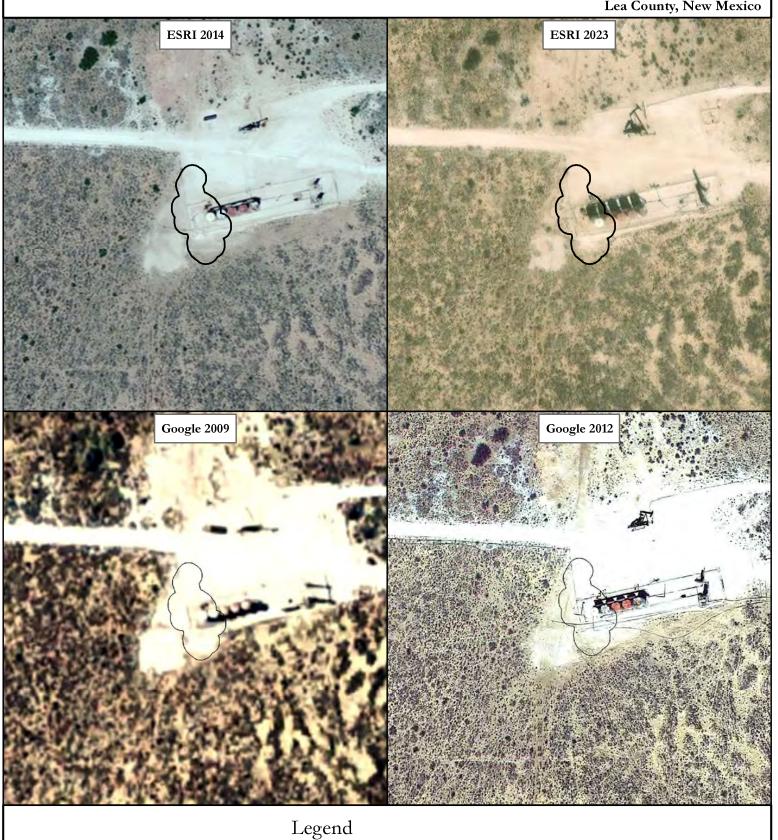


Base Map: USGS 7.5' Scale: 1:180,000 UTM NAD83 Zone 13 Received by OCD: 10/7/2024 3:12:03 PM

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Gem 4, 5, 7, 10 Battery, 8705 JV-P Ensolum, LLC T208 R33E Sec. 2 Laguna Gatuna(1984) Quad. Map Upper Pecos-Black Drainage Lea County, New Mexico



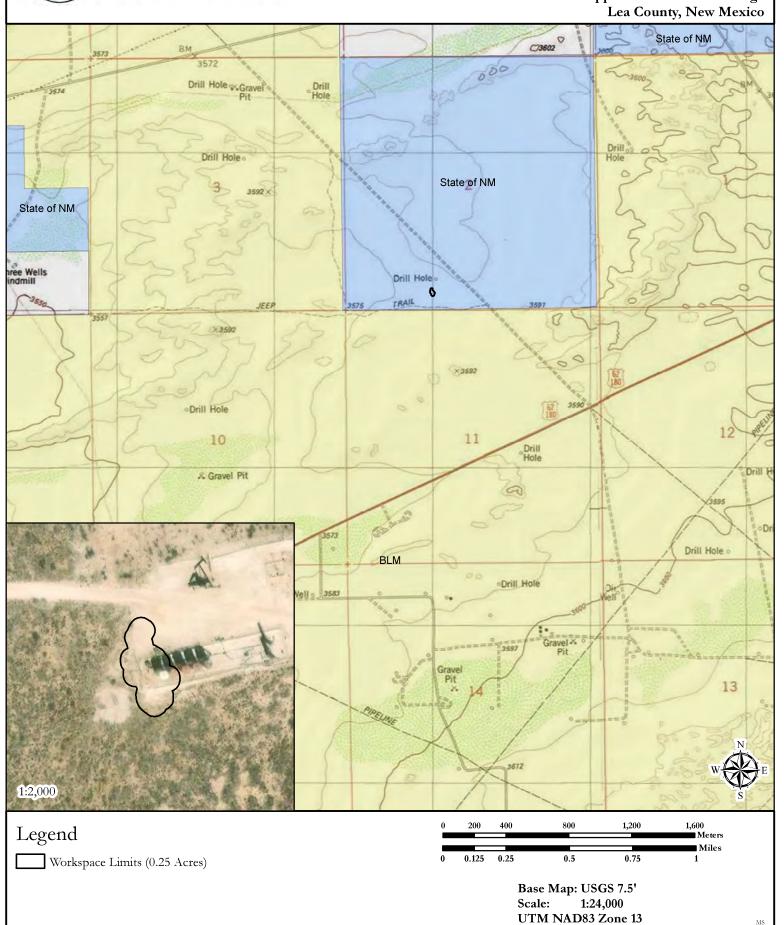
Workspace Limits (0.25 Acres)

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REDACTED

Gem 4, 5, 7, 10 Battery, 8705 JV-P Ensolum, LLC T20S R33E Sec. 2 Laguna Gatuna(1984) Quad. Map Upper Pecos-Black Drainage Lea County, New Mexico





APPENDIX C

Photographic Log



Photographic Log

BTA Oil Producers, LLC Gem 4, 5, 7, 10 Battery, 8705 JV-P Incident Number nCH1903263128





Photograph: 1 Date: 12/7/2018

Description: Release footprint, overspray visible to south.

View: South

Photograph: 2 Date: 2/12/2019 Description: Pasture and tank battery during Trinity delineation.

View: North





Photograph: 3 Date: 8/10/2023

Description: Delineation activities near active production

equipment.

View: East

Photograph: 4 Date: 10/20/2023

Description: Final excavation extent

View: Northeast



Photographic Log

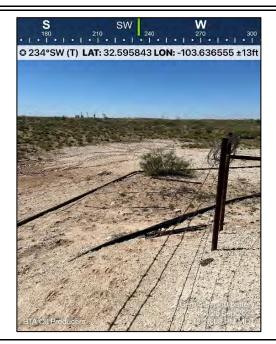
BTA Oil Producers, LLC Gem 4, 5, 7, 10 Battery, 8705 JV-P Incident Number nCH1903263128



Photograph: 5 Date: 9/26/2024

Description: Backfill activities

View: South



Photograph: 6 Date: 9/26/2024

Description: Backfill activities

View: Southwest



APPENDIX D

Lithologic Soil Sampling Logs

	Sample Name: BH01 Date: 8/10/2023
ENSOLUM	Site Name: Gem 4,5,7,10 Battery
E 14 3 O L O M	Incident Number: nCH1903263128
	Job Number: 03C2012041
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Peter Van Patten Method: Backhoe
Coordinates: 32.595768,-103.636505	Hole Diameter: Total Depth: 16'

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

periorii	ieu witii	1.4 ulluti	UII Ia	CLOI OI SOII	to distilled	water. 40%	correction	riactor included.
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	250	0		SS05	0.5	0.5	CHHE	CHHE; pad caliche
D	5,200	0	N		- - -	1	SP-SM	Sand: brown, light brown, fine grain, poorly graded, some tan caliche
D	1,200	0	N		- - -	2	SP-SM	SAA (same as above)
D	1,300	0	N		- - -	- _ 3 -	SP-SM	SAA, increasing caliche
D	1,200	0	N	BH01D	4 _	4 -	СННЕ	Caliche: off white, light tan, hard continuous layer, trace to some brown sand
D	2,700	0	N		- - -	- _ 5 -	СННЕ	Caliche: light tan, tan, granuar, some sand
D	2,300	0	N		- - -	- - 6	СННЕ	SAA
D	2,000	0	N		- - -	- - - 7 -	СННЕ	SAA
D	1,900	0	N		- - -	- - 8 -	СННЕ	SAA
					-	- - 9		
					-	10		
D	1,600	0	N	BH01K	11	_ 10	СННЕ	SAA
	2,000		'	2J.K		12		
					-	13		
D	1,700	0	N		-	_ 14	СННЕ	SAA
					-	_ _ 15		
D	1,300	0	N	BH01P	16	16	СННЕ	SAA

	Sample Name: BH04	Date: 8/10/2023
ENSOLUM	Site Name: Gem 4,5,7,10 Battery	
ENSOLUM	Incident Number: nCH1903263128	
	Job Number: 03C2012041	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Cole Burton	Method: Backhoe
Coordinates: 32.596042, -103.636588	Hole Diameter: 3'	Total Depth: 12
Comments: Field screening conducted with Titration MOHR method and D	ID for chloride and vapor, respective	oly Chlorido tost

Comments: Field screening conducted with Titration MOHR method and PID for chloride and vapor, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

				1	1	1	1	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,000		N		1 1 -	L - 1	ССНЕ	Caliche: Light brown, medium grade
М	700		N		2 _	2	SP-SM	Sand: red, medium grade
M	600		N		3 _	- - - 3	SP-SM	Sand: red, medium grade
М	800		N		4 _	_ _ 4	SP-SM	Sand: red, medium grade, some grey clay
D	1,200		N		5 <u>-</u> 5 <u>-</u>	- - 5 -	ССНЕ	Caliche: Light brown, medium grade, grey clay
D	800		N	BH04F	6 _	- _ 6	ССНЕ	SAA
D	4,900		N		7 _	- - - 7 -	ССНЕ	SAA
D	2,500		N		8 <u>-</u>	- - - 8	ССНЕ	SAA
D	3,500		N		9 _	- - 9 -	ССНЕ	SAA
D	2,500		N		10	10	ССНЕ	SAA
D	4,000		N		11 _	11	ССНЕ	SAA
D	2,500		Ν	BH04L	12 <u>-</u>	- 12	ССНЕ	SAA

ENSOLUM

APPENDIX E

Laboratory Analytical Reports &

Chain-of-Custody Documentation



August 17, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: GEM 4,5,7,10 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/11/23 11:10.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 08/11/2023 Reported: 08/17/2023

Project Name: GEM 4,5,7,10 BATTERY

Project Number: 03C2012041

Project Location: BTA (32.59584,-103.63667)

Sampling Date: 08/10/2023

Sampling Type: Soil

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

Sample ID: FS 01 4' (H234345-01)

DTEV 0021D

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	08/14/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	19.7	10.0	08/14/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	12.5	10.0	08/14/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

Applyand By 14/

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Celey D. Keene



08/10/2023

Analytical Results For:

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

Received: 08/11/2023 Sampling Date:

Reported: 08/17/2023 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012041 Sample Received By: Tamara Oldaker

Project Location: BTA (32.59584,-103.63667)

Sample ID: SS 01 0.5' (H234345-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/14/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	10.4	10.0	08/14/2023	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

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

Received: 08/11/2023 Reported: 08/17/2023

GEM 4,5,7,10 BATTERY

Project Name: GEM 4,5,7,1 Project Number: 03C2012041

Project Location: BTA (32.59584,-103.63667)

Sampling Date: 08/10/2023

Sampling Type: Soil

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

Sample ID: SS 02 0.5' (H234345-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/14/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/10/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012041 Sample Received By: Tamara Oldaker

Project Location: BTA (32.59584,-103.63667)

Sample ID: BH 01 K 11' (H234345-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/14/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/10/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012041 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: BTA (32.59584,-103.63667)

Sample ID: BH 01 P 16' (H234345-05)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: ЈН/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	08/14/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 08/11/2023 Reported: 08/17/2023

Project Name: GEM 4,5,7,10 BATTERY
Project Number: 03C2012041

Project Location: BTA (32.59584,-103.63667)

ma/ka

Sampling Date: 08/10/2023

Sampling Type: Soil

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

Sample ID: BH 04 4' (H234345-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/14/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Analyzed By: 1H /

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Celey D. Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keene



August 17, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: GEM 4,5,7,10 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/14/23 11:02.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 08/14/2023 Reported:

08/17/2023

GEM 4,5,7,10 BATTERY

Project Number: 03C2012041

Project Location: BTA (32.59584,-103.63667) Sampling Date: 08/11/2023

Sampling Type: Soil

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

Sample ID: SW 01 4' (H234367-01)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

 Received:
 08/14/2023
 Sampling Date:
 08/11/2023

 Reported:
 08/17/2023
 Sampling Type:
 Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012041 Sample Received By: Tamara Oldaker

Project Location: BTA (32.59584,-103.63667)

Sample ID: BH 04F 6' (H234367-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/14/2023 Reported: 08/17/2023

GEM 4,5,7,10 BATTERY

Project Name: GEM 4,5,7,1 Project Number: 03C2012041

Project Location: BTA (32.59584,-103.63667)

Sampling Date: 08/11/2023

Sampling Type: Soil

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

Sample ID: BH 04L 12' (H234367-03)

RTFY 8021R

Method Blank ND ND	BS 2.07 2.10	% Recovery	True Value QC	RPD	Qualifier
3 ND		103	2.00		
	2 10		=:00	3.26	
	2.10	105	2.00	2.73	
3 ND	2.07	104	2.00	3.09	
3 ND	6.44	107	6.00	2.46	
3 ND					
yzed By: AC					
Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3 ND	448	112	400	3.64	
Analyzed By: MS					
Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3 ND	166	82.9	200	2.25	
3 ND	152	76.1	200	1.59	
3 ND					
	Method Blank ND ND	Method Blank BS 3 ND 166 3 ND 152	Method Blank BS % Recovery 3 ND 166 82.9 3 ND 152 76.1	Method Blank BS % Recovery True Value QC 3 ND 166 82.9 200 3 ND 152 76.1 200	Method Blank BS % Recovery True Value QC RPD 3 ND 166 82.9 200 2.25 3 ND 152 76.1 200 1.59

Applyzod By: 14

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08/11/2023

Soil

Analytical Results For:

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

Received: 08/14/2023 Sampling Date: Reported: 08/17/2023 Sampling Type:

Project Name: **GEM 4,5,7,10 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C2012041

Project Location: BTA (32.59584,-103.63667)

Sample ID: SS 05 0.5' (H234367-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	3820	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	1260	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	459	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/14/2023 Reported: 08/17/2023

Project Name: **GEM 4,5,7,10 BATTERY**

Project Number: 03C2012041

Project Location: BTA (32.59584,-103.63667) Sampling Date: 08/11/2023

Sampling Type: Soil

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

Sample ID: SS 06 0.5' (H234367-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.07	103	2.00	3.26	
Toluene*	<0.050	0.050	08/16/2023	ND	2.10	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	2.07	104	2.00	3.09	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	6.44	107	6.00	2.46	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	235	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	239	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/14/2023 Reported: 08/17/2023

GEM 4,5,7,10 BATTERY

Project Name: GEM 4,5,7,10 Project Number: 03C2012041

Project Location: BTA (32.59584,-103.63667)

Sampling Date: 08/11/2023

Sampling Type: Soil

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

Sample ID: SS 07 0.5' (H234367-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.04	102	2.00	2.21	
Toluene*	<0.050	0.050	08/15/2023	ND	1.94	96.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.95	97.6	2.00	0.263	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.87	97.8	6.00	1.04	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	19.1	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	18.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/14/2023 Sampling Date: 08/11/2023 Reported: 08/17/2023 Sampling Type: Soil

Project Name: **GEM 4,5,7,10 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012041 Tamara Oldaker

Project Location: BTA (32.59584,-103.63667)

Sample ID: SS 03C 0.5' (H234367-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.04	102	2.00	2.21	
Toluene*	<0.050	0.050	08/16/2023	ND	1.94	96.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.95	97.6	2.00	0.263	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.87	97.8	6.00	1.04	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.5	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 08/14/2023
 Sampling Date:
 08/11/2023

 Reported:
 08/17/2023
 Sampling Type:
 Soil

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012041 Sample Received By: Tamara Oldaker

Project Location: BTA (32.59584,-103.63667)

Sample ID: SS 04C 0.5' (H234367-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.04	102	2.00	2.21	
Toluene*	<0.050	0.050	08/16/2023	ND	1.94	96.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.95	97.6	2.00	0.263	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.87	97.8	6.00	1.04	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	267	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	257	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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08/11/2023

Soil

Analytical Results For:

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

Received: 08/14/2023 Sampling Date:

Reported: 08/17/2023 Sampling Type:

Project Name: GEM 4,5,7,10 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012041 Sample Received By: Tamara Oldaker

Project Location: BTA (32.59584,-103.63667)

Sample ID: BH 02E 5.5' (H234367-09)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2023	ND	2.04	102	2.00	2.21	
Toluene*	<0.050	0.050	08/16/2023	ND	1.94	96.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.95	97.6	2.00	0.263	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.87	97.8	6.00	1.04	
Total BTEX	<0.300	0.300	08/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	08/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	166	82.9	200	2.25	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	152	76.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.5	% 49.1-14	0						

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Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAI Laboratorie 101 East Marland, Hobbs, NM 887

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

Company Nam	Company Name: Ensolum, LLC			BILL	S	1				
Project Manag	Project Manager: Hadlie Green				10		-	1	ANALYSIS REQUEST	1
Address: 3122	Address: 3122 National Parks Hwy			Company: BTA Oil						
City: Carlsbad		State: NM	Zip: 88220	Attn: Kevin Jones			1/-			
Phone #: 432-557-8895	57-8895	Fax #:		Address: 104 S Pecos St	os St					
Project #: 03	03C2012041	Project Owner:	er:	City: Midland						
Project Name:	Gem 4, 5, 7, 10 B	10 Battery		State: Texas Zin: 79701	2704			3		
Project Location:	32.59584	3.63667		Dhana #. 422 242 2	9701					
Sampler Name:	Cole Burton, Sarah Welvang	arah Welvang		Fav #.	203					100
FOR LAB USE ONLY		1	МАТОНУ	1						
				PRESERV. S.	SAMPLING		100	105		NA.
Lab I.D.	Sample I.D.	Depth (feet)	B OR (C)OM ITAINERS INDWATER EWATER	R: BASE:		PH	EX	Torial		1 2 3 10
H234367			# CON	OTHER CID/E CE / C	TIME		BT	<u>n</u>		
-	SW01	4,		1	0	×	<	1		
11	BH04F	6'								
	2002	12			1215	×	×			
7	- SS06	0.5			1122	X	×			
6	SS07	,50				×	· ×			
7	SS03C	0.5.			1001	7	X			
8	SS04C	05'			2	7	4 3			
9	ВН02 №	5.5'			1241	XX	XX			
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analyses. All claims including service. All to event shall Car affiliates or successors arising	a those for negligence and any other dinal be liable for incidental or conse aput of ar related to the performance	cause whatsoever shall be deemed quental damages, including without of services hereunder by Cardinal.	waived unless made in writing an limitation, business interruptions, regardless of whether such claim	or fort, shall be limited to the amount of received by Cardinal within 30 days a loss of use, or loss of profits incurred by head	e amount paid by the client for the 30 days after completion of the ag- incurred by client, its subsidiaries,	plicable				
1	1	2 TH 28	Received By:	11/11	Verbal Result:	t:	☐ Yes ☐	□ No	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:	1	Date: Dam	VAOIMINI	Mediatesal	harrech	400	enso	mu	nsolumicom	
		Time:			KEWAKKS:					
Delivered By: (Circle One)		Observed Temp. °C						1		
Sampler - UPS - Bus - Other			Cool Intact	(In	Turnaround Time:	ime:	Standard	2000	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
FORM-008 R		-	ONO ONO	12.	Corrector Factor	#13	#12	e cell	ch	_



APPENDIX F

NMOCD Correspondence

From: Kelton Beaird

Tacoma Morrissey; Hadlie Green

Subject: FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 225743

Date: Monday, July 10, 2023 8:51:19 AM

[**EXTERNAL EMAIL**]

Kelton Beaird Environmental Manager BTA Oil Producers

104 S. Pecos Midland, TX 79701 432-312-2203

From: Nathan Sirgo <nsirgo@btaoil.com>

Sent: Friday, July 7, 2023 5:33 PM

To: Kelton Beaird < KBeaird@btaoil.com>

Subject: Fwd: The Oil Conservation Division (OCD) has approved the application, Application ID:

225743

Nathan Sirgo

BTA Oil Producers (432) 682-3753

Begin forwarded message:

From: OCDOnline@state.nm.us

Date: July 7, 2023 at 4:02:55 PM CDT

To: Nathan Sirgo <nsirgo@btaoil.com>

Subject: The Oil Conservation Division (OCD) has approved the application,

Application ID: 225743

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

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nCH1903263128,

with the following conditions:

The proposed delineation plan is approved with the following conditions:
 Please make sure the floor confirmation samples are delineated/excavated to
 meet closure criteria standards for proven depth to water determination.
 Sidewall samples should be delineated to 600 mg/kg for chlorides and 100
 mg/kg for TPH to define the edge of the release. The proposed excavation
 activities are approved with the following conditions: Regarding the proposed
 installation of a liner at SP5 and SP8, operators may request a variance for any
 requirement of 19.15.29 NMAC. The variance request must include a detailed
 statement explaining the need for a variance and a detailed written
 demonstration that the variance will provide equal or better protection of
 fresh water, public health, and the environment. Before a request for
 Variance can be considered the release must be fully delineated. A revised
 Remediation/Closure report should be submitted no later than 10/05/2023

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

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

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

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: Wells, Shelly, EMNRD
To: Hadlie Green

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

Jocelyn, EMNRD

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

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

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

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Hadlie,

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

Thank you,

Shelly

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

From: Hadlie Green <hgreen@ensolum.com> Sent: Thursday, August 3, 2023 1:36 PM

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

Cc: Kelton Beaird < KBeaird@btaoil.com>

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

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

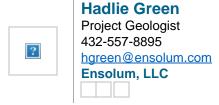
All,

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

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

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

Thank you,



Attachments:

From: Wells, Shelly, EMNRD To: **Hadlie Green**

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

RE: [EXTERNAL] BTA - Sampling Notification - Week of 08/14/2023 Subject:

Date: Thursday, August 10, 2023 3:58:32 PM

> image001.png image002.png image003.png

image004.png

[**EXTERNAL EMAIL**]

Good afternoon Hadlie,

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

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive | Santa Fe, NM 87505

(505)469-7520<u>| Shelly.Wells@emnrd.nm.gov</u>

http://www.emnrd.state.nm.us/OCD/

From: Hadlie Green hgreen@ensolum.com Sent: Thursday, August 10, 2023 2:26 PM

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

Cc: Kelton Beaird <KBeaird@btaoil.com>; Peter Van Patten <pvanpatten@ensolum.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 08/14/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of August 14, 2023.

- Gem 4, 5, 7, 10 Battery, 8705 JV-P / NCH1903263128
 - Sampling Date: 8/14/2023 @ 9:00 AM MST

- Rojo AE 7811 JV-P Fed 001H / nCH1836251271
 - Sampling Date: 8/14-18/2023 @ 9:00 AM MST

Thank you,



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

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

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

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

QUESTIONS

Action 390502

QUESTIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	390502
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nCH1903263128
Incident Name	NCH1903263128 GEM 4, 5, 7, 10 BATTERY, 8705 JV-P @ 30-025-31209
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-31209] GEM 8705 JV-P #004

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GEM 4, 5, 7, 10 BATTERY, 8705 JV-P
Date Release Discovered	12/07/2018
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	r the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Injection Produced Water Released: 6 BBL Recovered: 1 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

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

QUESTIONS, Page 2

Action 390502

Phone: (505) 476-3470 Fax: (505) 476-3462	,
QUEST	IONS (continued)
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297 Action Number: 390502 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a second content of the con	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ilation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager

Email: rramos@btaoil.com Date: 10/07/2024

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

Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

QUESTIONS, Page 3

Action 390502

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	390502
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provide	ed to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamir	nation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, it	n milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	6480
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	524
GRO+DRO (EPA SW-846 Method 8015M)	267
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comp which includes the anticipated timelines for beginning and completing the remediation.	pleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	08/21/2019
On what date will (or did) the final sampling or liner inspection occur	08/11/2023
On what date will (or was) the remediation complete(d)	08/11/2023
What is the estimated surface area (in square feet) that will be reclaimed	200
What is the estimated volume (in cubic yards) that will be reclaimed	30
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	30
These estimated dates and measurements are recognized to be the best guess or calculation	at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	d in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

District I

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

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

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

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

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

QUESTIONS, Page 4

Action 390502

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	390502
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 10/07/2024

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

Released to Imaging: 10/8/2024 8:22:20 AM

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

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

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

QUESTIONS, Page 5

Action 390502

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	390502
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

OUESTIONS

40011049		
Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		the following items must be confirmed as part of any request for deferral of remediation.
	Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

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

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Ea NIM 97505

QUESTIONS, Page 6

Action 390502

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	a re, NIVI 6/505
QUEST	IONS (continued)
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297 Action Number: 390502 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}
Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all	T .
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	200
What was the total volume (cubic yards) remediated	30
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	200
What was the total volume (in cubic yards) reclaimed	30
Summarize any additional remediation activities not included by answers (above)	Excavation of soil has mitigated impacts exceeding the Closure Criteria at the Site. Waste containing soil does exist at the Site on pad and will be removed during final abandonment or major reconstruction of the pad, whichever occurs first. Based on the delineation soil sample analytical results, approximately 300 cubic yards of soil exceeding the reclamation requirement in the top 4 feet on pad will be left in place. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nCH1903263128.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 repo	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or tially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed

prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: BTA ENSOLUM Title: Environmental Manager I hereby agree and sign off to the above statement Email: rramos@btaoil.com Date: 10/07/2024

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

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

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

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

QUESTIONS, Page 7

Action 390502

QUESTIONS	(continued)
QUESTIONS:	COHUHUCU <i>i</i>

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	390502
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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

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

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

CONDITIONS

Action 390502

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos Midland, TX 79701	Action Number: 390502
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date	
amaxwell	Remediation closure approved.	10/8/2024	
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/8/2024	
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	meet the reclamation standards and results to prove the backfill is non- need to be collected from the backfill material that will be used for the uest additional sampling if needed; pictures of the backfilled areas showing land use and maintain those areas to control dust and minimize erosion to	