



December 6, 2023

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
Ogden Substation Tank Overflow  
Incident Number nAPP2230983706  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Ogden Substation Tank Overflow (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to assess the integrity of the lined storage tank containment and address the impacted soil outside of containment, resulting from a produced water release at the Site. Based on field observations, excavation activities, and laboratory analytical results from the soil sampling events, BTA is submitting this Closure Request and requesting no further action for Incident Number nAPP2230983706.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit E, Section 32, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.26246°, -104.11691°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 4, 2022, a transfer pump failed to start, causing the produced water tanks to overflow into the secondary lined containment. The lined containment overflowed and produced water was released onto the surface of the well pad. Approximately 988 barrels (bbls) of produced water were released. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 972 bbls of produced water were recovered from ground surface and lined containment. BTA reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on November 4, 2022, and submitted a Release Notification Form C-141 (Form C-141) on November 18, 2022. The release was assigned Incident Number nAPP2230983706.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

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Depth to groundwater at the Site is estimated to be between 51 feet to 100 feet below ground surface (bgs) based on the closest groundwater well data. The closest groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321552104071601, located approximately 0.3 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 57 feet bgs and a total depth of 93 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an irrigation canal, located approximately 2,354 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## **SITE ASSESSMENT AND DELINEATION ACTIVITIES**

On November 21, 2022, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ten soil samples (SS01 through SS10) were collected within and around the release at a depth of approximately 0.5 feet bgs to assess the extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

On January 25 and 26, 2023, delineation activities were conducted at the Site to assess the vertical extent of the release. Potholes PH01 through PH06 were advanced via track mounted backhoe within the release extent at the locations of soil samples SS01 through SS06. The delineation potholes were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 4 feet bgs. Soil from the potholes was field screened using the same procedures described above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

The delineation 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 for the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method (SM) SM4500. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition.

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Laboratory analytical results for soil samples SS01 through SS06, collected within the release extent, indicated chloride and/or TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results for soil samples SS07 through SS10, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH03 indicated chloride concentrations exceeded the Site Closure Criteria at depths ranging from 1-foot to 2 feet bgs. Laboratory analytical results for the delineation soil samples from potholes PH04 through PH06, collected at depths ranging from 1-foot to 4 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

## LINER INTEGRITY INSPECTION AND EXCAVATION ACTIVITIES

A 48-hour advance notice of liner inspection was provided via email to the NMOCD on October 26, 2023. A liner integrity inspection was completed for the storage tank containment liner by Ensolum personnel on October 30, 2023. Upon inspection, no rips, tears, holes, or damage was observed. The liner was determined to be sufficient.

Between October 18, 2022 and November 29, 2023, Ensolum personnel were at the Site to oversee excavation of the impacted soil outside of the lined containment. Impacted soil was excavated as indicated by visible staining, field screening activities, and laboratory analytical results for the delineation soil samples. Excavation activities were performed via hand shoveling and backhoe. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 4 feet bgs.

Following the excavation activities, 5-point composite samples were collected from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS44 were collected from the floor of the excavation at depths ranging from 1-foot to 4 feet bgs. Composite soil samples SW01 through SW13 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. A photographic log of the excavation is included as Appendix B.

Laboratory analytical results for excavation soil samples FS01 through FS44, SW01 through SW08, and SW10 through SW13, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 8,845 square feet in areal extent. A total of approximately 504 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled.

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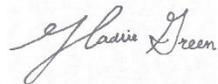
**CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address impacted soil resulting from the November 4, 2022, produced water release within the secondary lined containment and onto the well pad surface. A liner inspection was conducted by Ensolum personnel on October 30, 2023. Upon inspection, no rips, tears, holes, or damage was observed, and the liner was determined to be sufficient. Impacted soil was excavated from the release area outside of the lined containment. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. In addition, laboratory analytical results for lateral delineation soil samples SS07 through SS10 indicated all COC concentrations were compliant with the strictest Table I Closure Criteria and successfully defined the lateral extent of the release. Based on the soil sample analytical results, no further remediation is required.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater is estimated to be between 51 feet and 100 feet bgs and no other sensitive receptors were identified near the Site. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2230983706. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included as Appendix F.

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

Sincerely,  
**Ensolum, LLC**



Hadlie Green  
Project Geologist



Aimee Cole  
Senior Managing Scientist

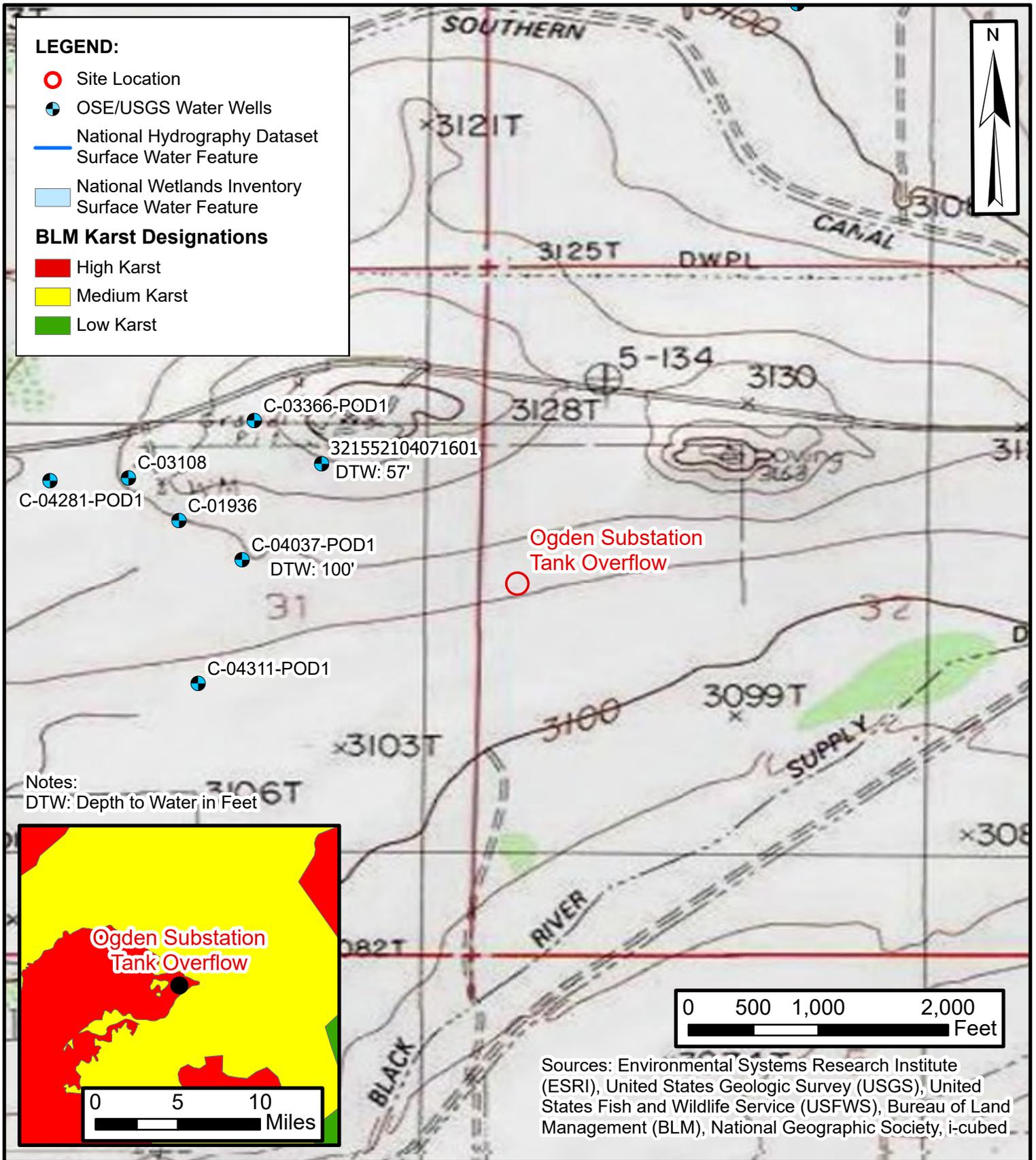
cc: Kelton Beaird, BTA  
Bureau of Land Management

Appendices:

- 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 Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications
- Appendix F Final C-141



FIGURES



**Site Receptor Map**

Ogden Substation Tank Overflow  
BTA Oil Producers, LLC  
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Unit E, Sec 32, T23S, R28E  
Eddy County, New Mexico

**FIGURE**  
**1**

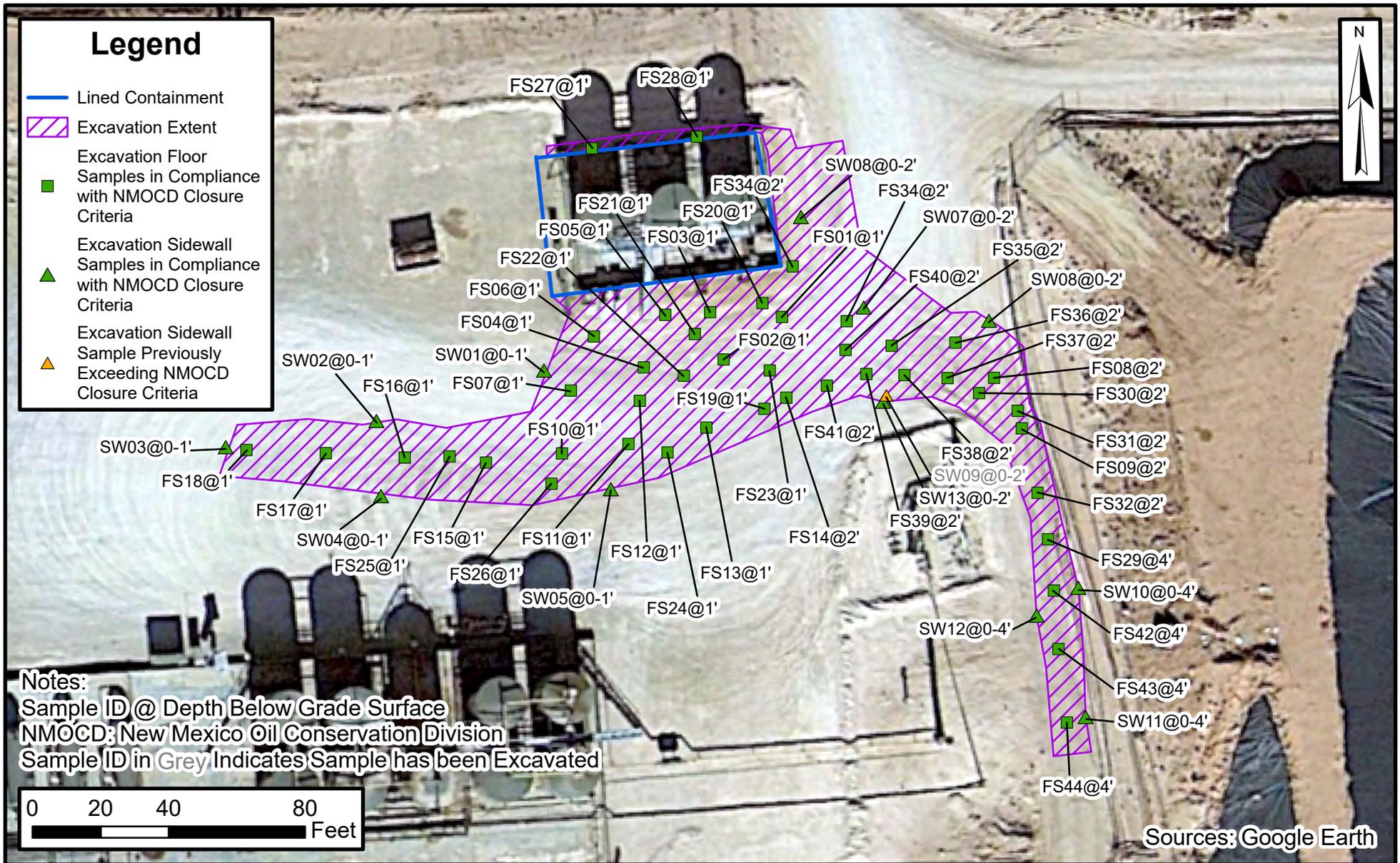


# Delineation Soil Sample Locations

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FIGURE  
**2**





**Excavation Soil Sample Locations**

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 Unit E, Sec 32, T23S, R28E  
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**FIGURE 3**



TABLES

**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Ogden Substation Tank Overflow  
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Delineation Soil Samples</b>										
SS01	11/21/2022	0.5	<0.050	<0.300	<10.0	86.7	10.9	86.7	97.6	12,000
SS02	11/21/2022	0.5	<0.050	<0.300	<10.0	165	20.4	165	185.4	16,000
SS03	11/21/2022	0.5	<0.050	<0.300	<10.0	125	20.5	125	145.4	18,600
SS04	11/21/2022	0.5	<0.050	<0.300	<10.0	348	52.9	348	400.9	38,000
SS05	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	17,000
SS06	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,800
SS07	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SS08	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS09	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SS10	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH01	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,940
PH01A	01/25/2023	2	<0.050	<0.300	<10.0	23.8	<10.0	23.8	23.8	2,210
PH01B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
PH02	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
PH02A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH02B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH03	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,140
PH03A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
PH03B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH04	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
PH04A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH04B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
PH05	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH05A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH05B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH06	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	306
PH06A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH06B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208

**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Ogden Substation Tank Overflow  
BTA Oil Producers, LLC  
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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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
<b>Excavation Floor Soil Samples</b>										
FS01	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS02	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS04	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS05	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS06	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS07	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS08	10/20/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS09	10/20/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS10	10/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS11	10/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS12	10/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	10/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS15	10/23/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS16	10/23/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS17	10/23/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS18	10/23/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS19	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS20	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256

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<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
FS21	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS22	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS23	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS24	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS25	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS26	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS27	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS28	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS29	10/24/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS30	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS31	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS32	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS33	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS34	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS35	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
FS36	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS37	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS38	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS39	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS40	11/16/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS41	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS42	11/16/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS43	11/16/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS44	11/16/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

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<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Excavation Sidewall Soil Samples</b>										
SW01	10/19/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW02	10/23/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW03	10/23/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW04	10/23/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW05	10/23/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW06	11/16/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW07	11/16/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SW08	11/16/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW09	11/16/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,070</b>
SW10	11/16/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW11	11/16/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW12	11/16/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW13	11/29/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528

Notes:

bgs: below ground surface  
mg/kg: milligrams per kilogram  
NMOCD: New Mexico Oil Conservation Division  
NE: Not Established  
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes  
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics  
DRO: Diesel Range Organics  
ORO: Oil Range Organics  
TPH: Total Petroleum Hydrocarbon  
Grey text indicates sample has been excavated.



## APPENDIX A

### Referenced Well Records

---



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

site\_no list =

- 321552104071601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 321552104071601 23S.28E.31.23142

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°15'52", Longitude 104°07'16" NAD27

Land-surface elevation 3,139 feet above NAVD88

The depth of the well is 93 feet below land surface.

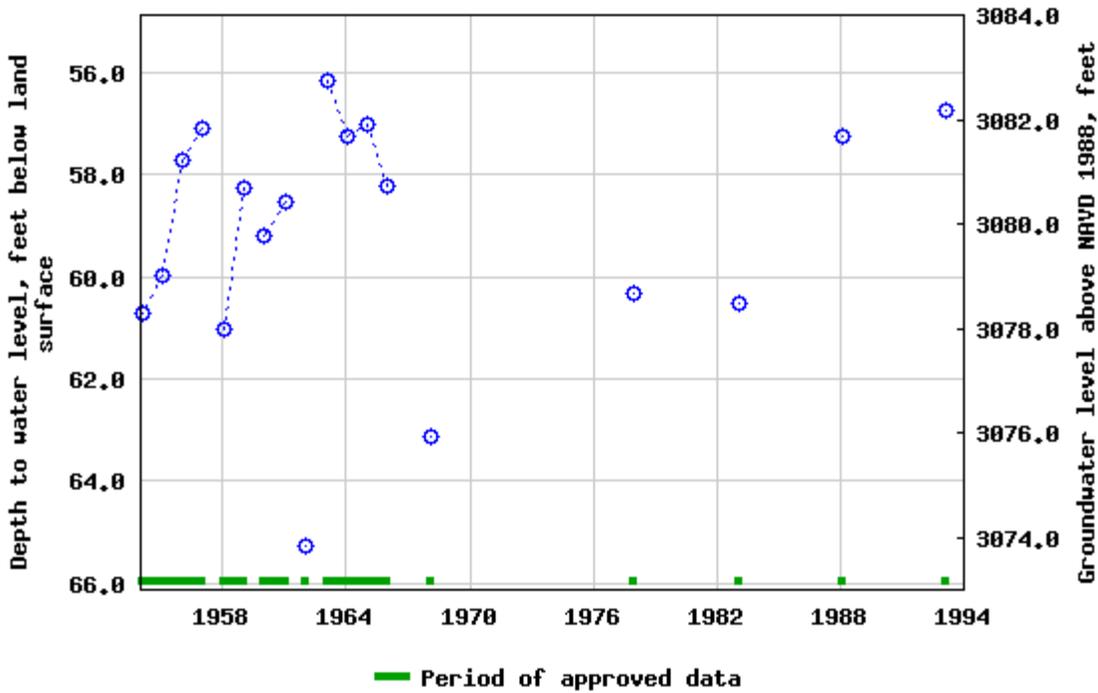
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 321552104071601 23S,28E,31,23142



Breaks in the plot represent a gap of at least one year between field measurements. [Download a presentation-quality graph](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-02-02 08:52:08 EST

0.64 0.5 nadww01





# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE OF NEW MEXICO  
ROSWELL, NEW MEXICO

2017 AUG 28 AM 10:47

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4037		WELL TAG ID NO.		OSE FILE NO(S)			
	WELL OWNER NAME(S) Sendero Calrsbad Midstream LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 16430 Park Ten Place Suite 675				CITY Houston	STATE TX	ZIP 77084	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 15	SECONDS 45.1 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE 104	07	23.8 W	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Well is off of Bounds Rd. at Sendero refinery. Location is close to the northern fence line.								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1348		NAME OF LICENSED DRILLER Clinton E. Taylor			NAME OF WELL DRILLING COMPANY Taylor Water Well Service		
	DRILLING STARTED 7/17/2017	DRILLING ENDED 7/18/2017	DEPTH OF COMPLETED WELL (FT) 98.5	BORE HOLE DEPTH (FT) 100	DEPTH WATER FIRST ENCOUNTERED (FT) 60			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 34			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD		ADDITIVES - SPECIFY:					
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	+1.5	58.5	8 1/2	PVC	Spline	4 1/2	SDR 17	
	58.5	98.5	8 1/2	PVC	Spline	4 1/2	SDR 17	.032
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
FROM	TO							
0	20	8 1/2	20% Bentonite Grout		3 Sacks	Tremie		
20	98.5	8 1/2	3/8" Pea Gravel		2 Yards	Dump		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO.	C-4037	POD NO.	1	TRN NO.	604774
LOCATION	Drink Sanit	235.28E.31.234	WELL TAG ID NO.	—	PAGE 1 OF 2



Tom Blaine, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 604776  
File Nbr: C 04037  
Well File Nbr: C 04037 POD1

Sep. 01, 2017

SAM HEFFINGTON  
TRAILHEAD ENGINEERING  
16430 PARK TEN PLACE  
SUITE 675  
HOUSTON, TX 77084

Greetings:

The well driller's record for the above numbered well has been received in this office indicating your well has been completed.

Your permit was granted with the condition that a meter(s) be installed and meter readings submitted to this office.

Per Condition 5B, please advise this office within 30 days, on the attached form, of the make, model, serial number, date of installation, and initial reading of the meter(s) prior to appropriation of the water.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "Yolanda Mendiola".

Yolanda Mendiola  
(575) 622-6521

Enclosure

wellcon5



APPENDIX B  
Photographic Log

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**Photographic Log**  
BTA Oil Producers, LLC  
Ogden Substation Tank Overflow  
Incident Number nAPP2230983706



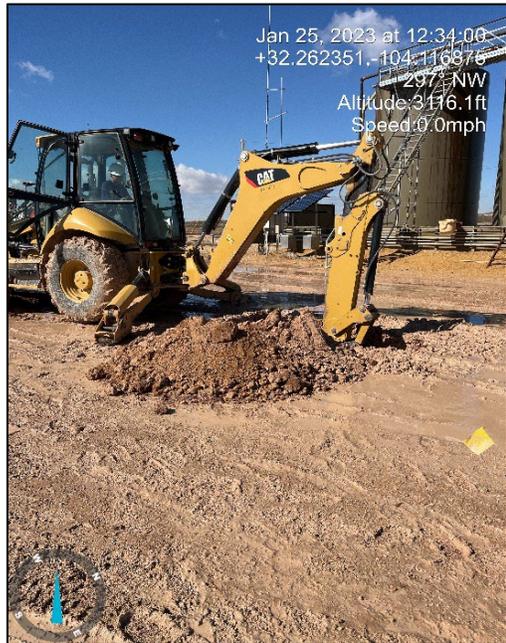
Nov 21, 2022 at 08:45:13  
+32.262341, -104.113613  
30.8° NW  
Lovig NM 88256  
United States  
Altitude: 947.6meter  
Speed: 0.2km/h

Photograph: 1 Date: 11/4/2022  
Description: Soil staining in release footprint  
View: West

Photograph: 2 Date: 11/21/2022  
Description: Soil staining in release footprint  
View: Northwest



Nov 21, 2022 at 08:26:52  
+32.262335, -104.117077  
63° NE  
Lovig NM 88256  
United States  
Altitude: 948.6meter  
Speed: 0.2km/h



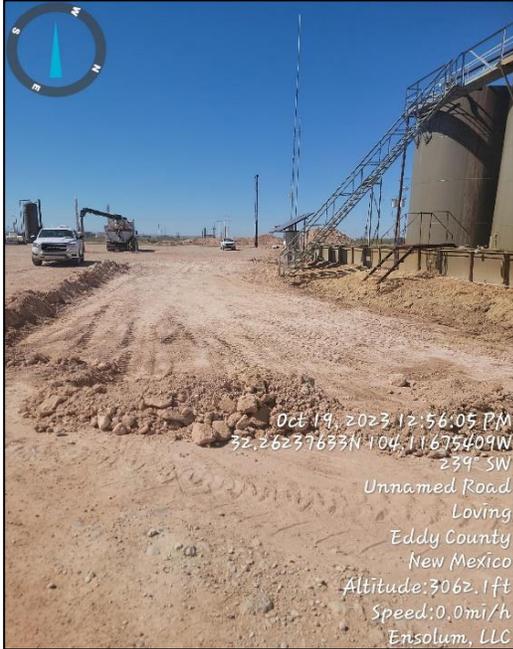
Jan 25, 2023 at 12:34:00  
+32.262351, -104.116376  
29.7° NW  
Altitude: 3116.1ft  
Speed: 0.0mph

Photograph: 3 Date: 11/21/2022  
Description: Soil staining in release footprint  
View: Northeast

Photograph: 4 Date: 1/25/2023  
Description: Delineation activities  
View: Northwest



**Photographic Log**  
BTA Oil Producers, LLC  
Ogden Substation Tank Overflow  
Incident Number nAPP2230983706



Photograph: 5 Date: 10/19/2023  
Description: Excavation activities  
View: Southwest



Photograph: 6 Date: 11/29/2023  
Description: Excavation activities  
View: South



Photograph: 7 Date: 10/30/2023  
Description: View of lined containment deemed to be in good condition, facing east.



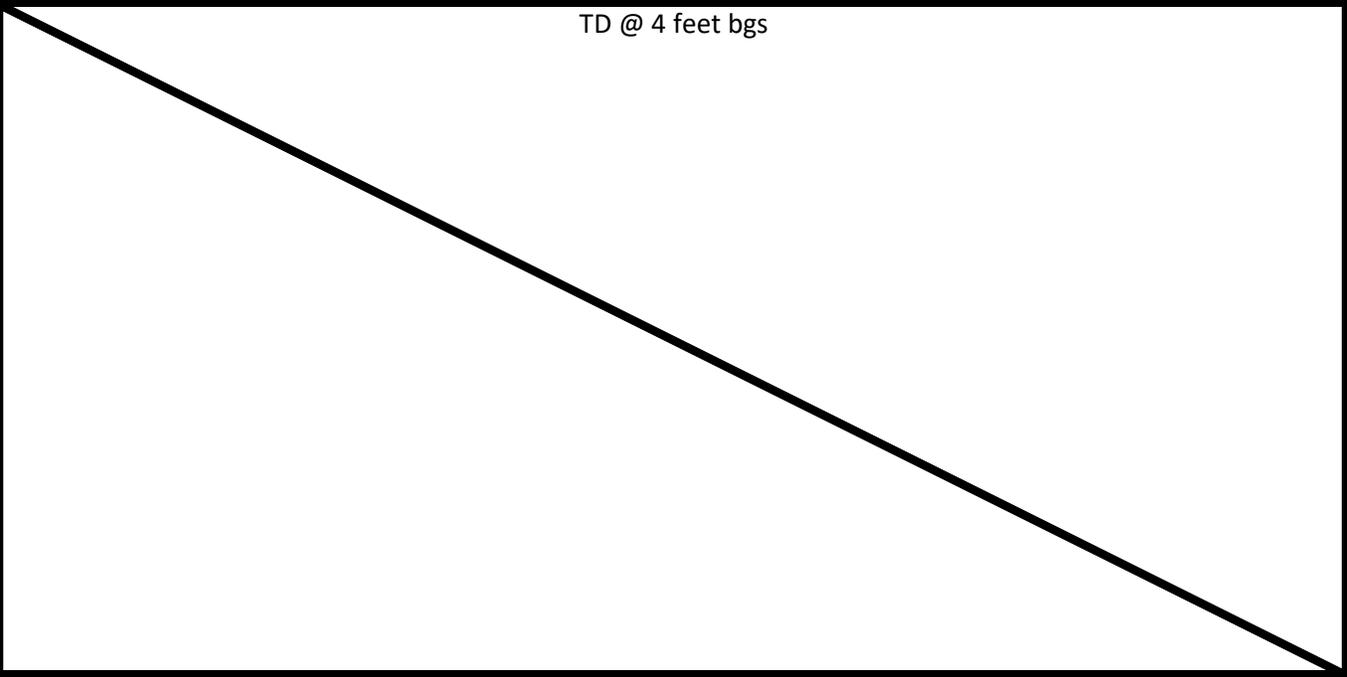
Photograph: 8 Date: 10/30/2023  
Description: View of lined containment with pooled rain water, deemed to be in good condition, facing east.



## APPENDIX C

### Lithologic Soil Sampling Logs

---

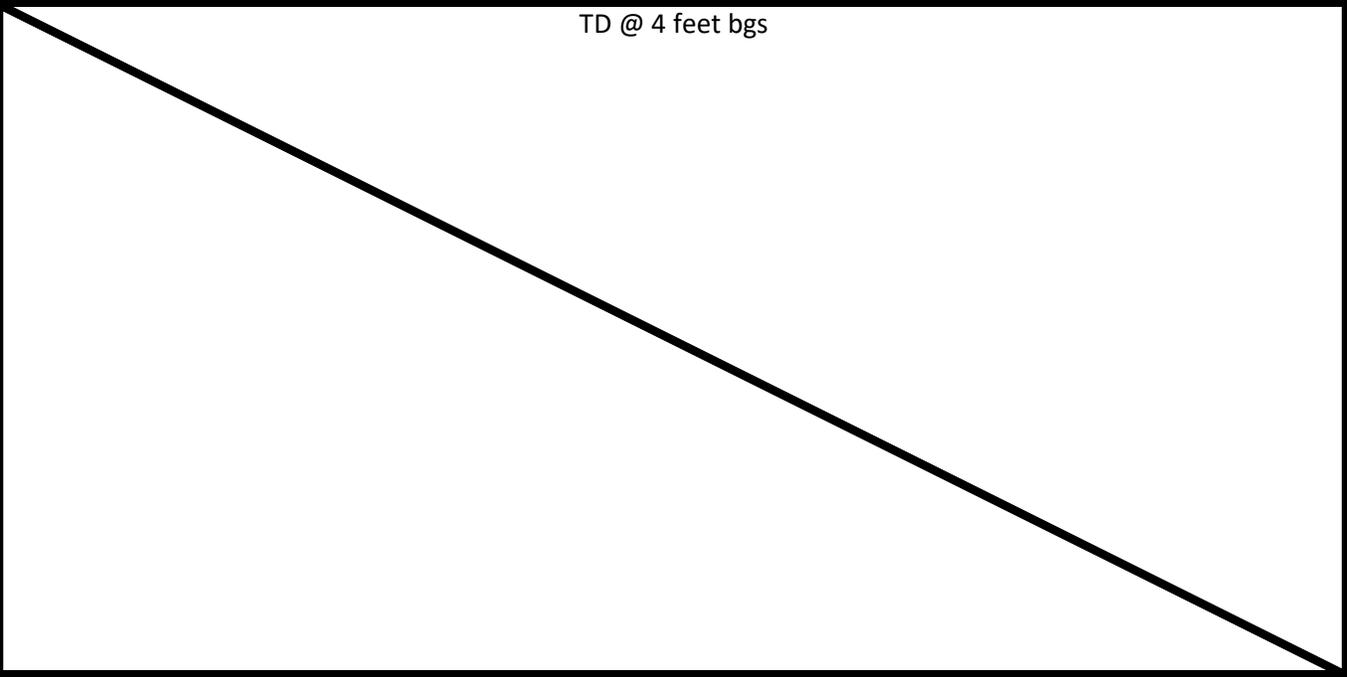
								Sample Name: <b>PH01</b>		Date: <b>01/25/23</b>	
								Site Name: <b>Ogden Substation Tank Overflow</b>			
								Incident Number: <b>NAPP2230983706</b>			
								Job Number: <b>03C2012016</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: MR		Method: Backhoe	
Coordinates: <b>32.261866, -104.117304</b>								Hole Diameter: NA		Total Depth: <b>4'</b>	
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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
N	21749	1.6	Y	SS01	0.5	0	CCHE	CALICHE, dark/medium brown, subrounded grains, stained, slight odor			
M	2033	0	N	PH01	1	1	SP-SM	SAND, dark brown, poorly sorted, some caliche gravel mixed in, moist, no staining, no odor			
M	2873	20.4	N	PH01A	2	2	SP-SM	SAA, but with odor			
D	526.4	0.5	N			3	CCHE	CALICHE, medium brown caliche, with angular grains, dry, no odor, no staining			
D	369.6	0.4	N	PH01B	4	4	CCHE	SAA			
TD @ 4 feet bgs											
											

								Sample Name: <b>PH02</b>		Date: <b>01/25/23</b>	
								Site Name: <b>Ogden Substation Tank Overflow</b>			
								Incident Number: <b>NAPP2230983706</b>			
								Job Number: <b>03C2012016</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: MR		Method: Backhoe	
Coordinates: <b>32.261866, -104.117304</b>								Hole Diameter: NA		Total Depth: <b>4'</b>	
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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	15256	0.4	Y	SS02	0.5	0	CCHE	CALICHE, dark/medium brown, subrounded grains, moist, stained, slight odor			
M	649.6	9.9	N	PH02	1	1	SP-SM	SAND, dark brown, mixed with caliche gravel, slight odor, moist, no staining			
M	246.4	0.1	N	PH02A	2	2	SP-SM	SAA, more gravel			
D	369.6	0	N			3	CCHE	CALICHE, medium/dark brown with silt mix, no stain, no odor			
D	280	0.2	N	PH02B	4	4	CCHE	SAA, some claystone mixed in			
TD @ 4 feet bgs											

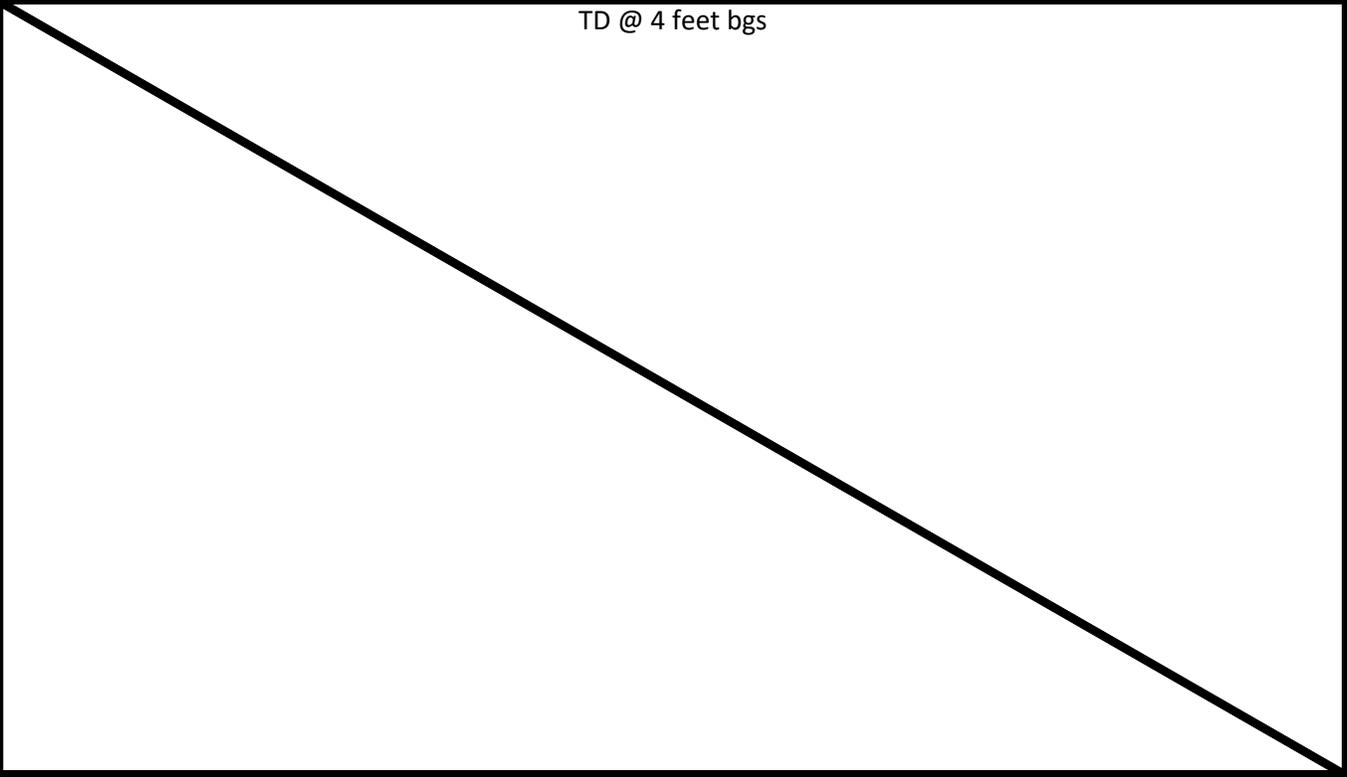
								Sample Name: <b>PH03</b>	Date: <b>01/25/23</b>
								Site Name: <b>Ogden Substation Tank Overflow</b>	
								Incident Number: <b>NAPP2230983706</b>	
								Job Number: <b>03C2012016</b>	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: MR	Method: Backhoe
Coordinates: <b>32.261866, -104.117304</b>								Hole Diameter: NA	Total Depth: <b>4'</b>
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. No correction factors included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
M	19796	0.2	Y	SS03	0.5	0	CCHE	CALICHE, dark/medium brown, subrounded grains, moist, stained, slight odor	
M	1126	0.2	Y	PH03	1	1	SP-SM	SAND, dark brown, poorly sorted, some staining, no odor, moist	
M	<173.6	0.3	N	PH03A	2	2	SP-SM	SAND, medium brown, some claystones, poorly sorted, no staining, no odor, moist	
D	<173.6	0.4	N			3	SC	Red/pink claystones, angular with cleavage planes, clear/white, no staining, no odor, dry	
D	<173.6	0.3	N	PH03B	4	4	SC	SAA	
TD @ 4 feet bgs									

								Sample Name: <b>PH04</b>	Date: <b>01/25/23</b>
								Site Name: <b>Ogden Substation Tank Overflow</b>	
								Incident Number: <b>NAPP2230983706</b>	
								Job Number: <b>03C2012016</b>	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: MR	Method: Backhoe
Coordinates: <b>32.261866, -104.117304</b>								Hole Diameter: NA	Total Depth: <b>4'</b>
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. No correction factors included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
M	>34429	1.5	Y	SS04	0.5	0	CCHE	CALICHE, medium brown, subrounded grains, moist, stained, slight odor	
M	649.6	0.5	N	PH04	1	1	CCHE	SAA, no odor, no staining	
M	173.6	0.2	N	PH04A	2	2	SP-SM	SAND, medium/dark brown sand/silt mix, sub-angular grains, poorly sorted, no odor, no staining, moist	
M	173.6	1.6	N			3	SP-SM	SAA, with odor	
M	<173.6	0.2	N	PH04B	4	4	SC	Red claystones with calcite, angular grains, cleavage planes, no odor, no staining	
TD @ 4 feet bgs									

								Sample Name: PH05		Date: 01/25/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	26762	0.1	Y	SS05	0.5	0	CCHE	CALICHE, medium brown, subrounded grains, moist, stained, slight odor			
M	<173.6	0.3	N	PH05	1	1	CCHE	CALICHE, light/medium brown caliche with sand mixed in, poorly sorted, no staining, no odor			
M	<173.6	0.5	N	PH05A	2	2	SP	SAND, light/medium brown sand with caliche mixed in, poorly sorted, no staining, no odor			
M	<173.6	0.4	N			3	SC	Red/brown claystones with calcite, angular grains, cleavage planes, poorly sorted, no staining, no odor			
M	<173.6	0.4	N	PH05B	4	4	SC	SAA			
TD @ 4 feet bgs											

								Sample Name: <b>PH06</b>		Date: <b>01/25/23</b>	
								Site Name: <b>Ogden Substation Tank Overflow</b>			
								Incident Number: <b>NAPP2230983706</b>			
								Job Number: <b>03C2012016</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: MR		Method: Backhoe	
Coordinates: <b>32.261866, -104.117304</b>								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	12006	0.0	Y	SS06	0.5	0.5	CCHE	CALICHE, medium brown, subrounded grains, moist, stained, slight odor			
M	173.6	0.6	N	PH06	1	1	CCHE	SAA, slight odor, some silt			
M	<173.6	0.6	N	PH06A	2	2	CCHE	SAA			
M	<173.6	3.2	N			3	SP-SM	SAND, red/medium brown, minor claystones, sub-angular grains, poorly sorted, slight odor			
M	<173.6	0.5	N	PH06B	4	4	SC	Red-brown claystones with calcite, angular grains, poorly sorted, no odor, no staining			
TD @ 4 feet bgs											
											

								Sample Name: <b>PH07</b>		Date: <b>01/26/23</b>	
								Site Name: <b>Ogden Substation Tank Overflow</b>			
								Incident Number: <b>NAPP2230983706</b>			
								Job Number: <b>03C2012016</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: MR		Method: Backhoe	
Coordinates: <b>32.261866, -104.117304</b>								Hole Diameter: NA		Total Depth: <b>4'</b>	
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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	<162.4	0.0	N	SS07	0.5	0.5	SP-SM	SAND, medium/dark brown, poorly sorted, moist, no odor, no staining			
M	<173.6	0.1	N	PH07	1	1	SP-SM	SAA, but dark brown			
D	<173.6	0.3	N	PH07A	2	2	SP-SM	SAND, red/brown with claystones mixed in, sub-angular grains, poorly sorted, no staining, no odor			
D	<173.6	0.2	N	PH07B	4	4	SC	Red/pink claystones with calcite, angular grains, cleavage planes, no staining, no odor			
TD @ 4 feet bgs											

								Sample Name: <b>PH08</b>		Date: <b>01/26/23</b>	
								Site Name: <b>Ogden Substation Tank Overflow</b>			
								Incident Number: <b>NAPP2230983706</b>			
								Job Number: <b>03C2012016</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: MR		Method: Backhoe	
Coordinates: <b>32.261866, -104.117304</b>								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	<162.4	0.0	N	SS08	0.5	0.5	CCHE	CALICHE, medium brown, sand mixed in, poorly sorted, no odor, no staining, moist			
D	<173.6	0.1	N	PH08	1	1	SP-SM	SAND, red/brown, some caliche gravel mixed in, no staining, no odor			
D	<173.6	0.1	N	PH08A	2	2	SP-SM	SAA			
D	<173.6	0.2	N	PH08B	4	4	SC	Red claystones with calcite, angular grains, poorly sorted, no staining, no odor			
TD @ 4 feet bgs											
											

					Sample Name: <b>PH09</b>		Date: <b>01/26/23</b>	
					Site Name: <b>Ogden Substation Tank Overflow</b>			
					Incident Number: <b>NAPP2230983706</b>			
					Job Number: <b>03C2012016</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: MR		Method: Backhoe	
Coordinates: <b>32.261866, -104.117304</b>					Hole Diameter: NA		Total Depth: <b>4'</b>	
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. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	543.2	0.0	N	SS09	0.5	0	CCHE	CALICHE, medium/dark brown, poorly sorted, subrounded grains, no staining, no odor
D	526.4	0.2	N	PH09	1	1	SP-SM	SAND, red/brown, caliche gravel mixed in, poorly sorted, no odor, no staining
D	280	0.1	N	PH09A	2	2	SP-SM	SAA, but dark brown
D	470.4	0.0	N	PH09B	4	4	SP-SM	SAA
TD @ 4 feet bgs								

					Sample Name: <b>PH10</b>		Date: <b>01/26/23</b>	
					Site Name: <b>Ogden Substation Tank Overflow</b>			
					Incident Number: <b>NAPP2230983706</b>			
					Job Number: <b>03C2012016</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: MR		Method: Backhoe	
Coordinates: <b>32.261866, -104.117304</b>					Hole Diameter: NA		Total Depth: <b>4'</b>	
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. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
M	<162.4	0.0	N	SS10	0.5	0.5	SP-SM	SAND, dark brown, poorly sorted, subrounded grains, no staining, no odor
D	<173.6	0.4	N	PH10	1	1	SP-SM	SAA
D	<173.6	0.1	N	PH10A	2	2	SP-SM	SAA
D	<173.6	0.0	N	PH10B	4	4	SP-SM	SAA, but with more caliche gravel mixed in
TD @ 4 feet bgs								



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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November 28, 2022

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

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS07 @ 0.5' (H225482-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8	
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77	
Total BTEX	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>288</b>	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS08 @ 0.5' (H225482-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8	
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77	
Total BTEX	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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 whatsoever 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, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS10 @ 0.5' (H225482-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8	
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77	
Total BTEX	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.5 % 46.3-178

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 whatsoever 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, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: <u>Ensolum, LLC</u>		P.O. #:		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: <u>Hattie Green</u>		Company: <u>BTA O.I.</u>					
Address: <u>3122 Nat'l Parks Hwy</u>		Attn: <u>Bob Hall</u>					
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>		Address: <u>104 S Pecos St</u>					
Phone #: <u>432-557-8895</u> Fax #:		City: <u>Midland</u>					
Project #: <u>03C2012016</u> Project Owner:		State: <u>TX</u> Zip: <u>79701</u>					
Project Name: <u>Ogden Substation Tank Overflow</u>		Phone #: <u>432-312-2203</u>					
Project Location: <u>32.261866, -104.117304</u>		Fax #:					
Sampler Name: <u>Meredith Roberts</u>		PRESERV:					
FOR LAB USE ONLY		SAMPLING					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	RESULTS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
<u>H205482</u>	<u>SS07 @ 0.5'</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>11/21/22</u>	<u>0855</u>	<u>X</u> Chlorides
<u>2</u>	<u>SS08</u>	<u>↓</u>	<u>↓</u>			<u>↓</u>					<u>0900</u>	<u>↓</u>	<u>X</u> BTEX
<u>3</u>	<u>SS10</u>	<u>↓</u>	<u>↓</u>			<u>↓</u>					<u>0910</u>	<u>↓</u>	<u>X</u> TPH

**PLEASE NOTE:** Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or obligations.

Relinquished By: Frederick Date: 11/21/22 Time: 1448 Received By: Spedding

Delivered By: (Circle One) Observed Temp. °C: 7.1 Sample Condition: Intact Checked By: SR

Sampler - UPS - Bus - Other: Corrected Temp. °C: 6.5 Cool Intact: Yes No: No

Remarks: Incident #: APP2230983706

Turnaround Time: Standard Bacteria (only) Sample Condition: Observed Temp. °C

Thermometer ID #113 0.0 Correction Factor: 0.0 Rush: No Cool Intact: Yes No: No Corrected Temp. °C: 4.3

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



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

---

November 28, 2022

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

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS01 @ 0.5' (H225483-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8	
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77	
Total BTEX	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>12000</b>	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	203	102	200	3.02	
<b>DRO &gt;C10-C28*</b>	<b>86.7</b>	10.0	11/22/2022	ND	215	108	200	3.73	
<b>EXT DRO &gt;C28-C36</b>	<b>10.9</b>	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS02 @ 0.5' (H225483-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8	
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77	
Total BTEX	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16000</b>	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	203	102	200	3.02	
<b>DRO &gt;C10-C28*</b>	<b>165</b>	10.0	11/22/2022	ND	215	108	200	3.73	
<b>EXT DRO &gt;C28-C36</b>	<b>20.4</b>	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS03 @ 0.5' (H225483-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8	
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77	
Total BTEX	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>18600</b>	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	203	102	200	3.02	
<b>DRO &gt;C10-C28*</b>	<b>125</b>	10.0	11/22/2022	ND	215	108	200	3.73	
<b>EXT DRO &gt;C28-C36</b>	<b>20.5</b>	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS04 @ 0.5' (H225483-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8	
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77	
Total BTEX	<0.300	0.300	11/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>38000</b>	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	202	101	200	3.24	
<b>DRO &gt;C10-C28*</b>	<b>348</b>	10.0	11/22/2022	ND	199	99.4	200	0.00252	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>52.9</b>	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS05 @ 0.5' (H225483-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	1.92	96.0	2.00	7.81	
Toluene*	<0.050	0.050	11/23/2022	ND	2.16	108	2.00	9.03	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	1.96	97.8	2.00	7.29	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	5.91	98.5	6.00	8.94	
Total BTEX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	202	101	200	3.24	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	199	99.4	200	0.00252	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS06 @ 0.5' (H225483-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	1.92	96.0	2.00	7.81	
Toluene*	<0.050	0.050	11/23/2022	ND	2.16	108	2.00	9.03	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	1.96	97.8	2.00	7.29	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	5.91	98.5	6.00	8.94	
Total BTEX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	202	101	200	3.24	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	199	99.4	200	0.00252	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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November 28, 2022

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

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	** (See Notes)
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SS09 @ 0.5' (H225484-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	1.92	96.0	2.00	7.81	
Toluene*	<0.050	0.050	11/23/2022	ND	2.16	108	2.00	9.03	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	1.96	97.8	2.00	7.29	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	5.91	98.5	6.00	8.94	
Total BTEX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/22/2022	ND	400	100	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	11/22/2022	ND	202	101	200	3.24	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	199	99.4	200	0.00252	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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---

January 31, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 01/26/23 13:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 01 @ 1' (H230373-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1940	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 01 A @ 2' (H230373-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2210</b>	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
<b>DRO &gt;C10-C28*</b>	<b>23.8</b>	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 01 B @ 4' (H230373-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/27/2023	ND	416	104	400	0.00	QM-07

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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 02 @ 1' (H230373-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>848</b>	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 02 A @ 2' (H230373-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 02 B @ 4' (H230373-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 03 @ 1' (H230373-07)**

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	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 03 A @ 2' (H230373-08)**

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	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 03 B @ 4' (H230373-09)**

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	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	QR-03
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 04 @ 1' (H230373-10)**

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	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 04 A @ 2' (H230373-11)**

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	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 04 B @ 4' (H230373-12)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 05 @ 1' (H230373-13)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 05 A @ 2' (H230373-14)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 05 B @ 4' (H230373-15)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 06 @ 1' (H230373-16)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 06 A @ 2' (H230373-17)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/25/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 06 B @ 4' (H230373-18)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 07 @ 1' (H230373-19)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 07 A @ 2' (H230373-20)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 07 B @ 4' (H230373-21)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 08 @ 1' (H230373-22)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 08 A @ 2' (H230373-23)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 08 B @ 4' (H230373-24)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 09 @ 1' (H230373-25)**

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	01/26/2023	ND	2.02	101	2.00	0.982	
Toluene*	<0.050	0.050	01/26/2023	ND	2.08	104	2.00	0.394	
Ethylbenzene*	<0.050	0.050	01/26/2023	ND	2.11	105	2.00	1.88	
Total Xylenes*	<0.150	0.150	01/26/2023	ND	6.42	107	6.00	0.332	
Total BTEX	<0.300	0.300	01/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 09 A @ 2' (H230373-26)**

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	01/26/2023	ND	2.02	101	2.00	0.982	
Toluene*	<0.050	0.050	01/26/2023	ND	2.08	104	2.00	0.394	
Ethylbenzene*	<0.050	0.050	01/26/2023	ND	2.11	105	2.00	1.88	
Total Xylenes*	<0.150	0.150	01/26/2023	ND	6.42	107	6.00	0.332	
Total BTEX	<0.300	0.300	01/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 09 B @ 4' (H230373-27)**

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	01/26/2023	ND	2.02	101	2.00	0.982	
Toluene*	<0.050	0.050	01/26/2023	ND	2.08	104	2.00	0.394	
Ethylbenzene*	<0.050	0.050	01/26/2023	ND	2.11	105	2.00	1.88	
Total Xylenes*	<0.150	0.150	01/26/2023	ND	6.42	107	6.00	0.332	
Total BTEX	<0.300	0.300	01/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 10 @ 1' (H230373-28)**

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	01/26/2023	ND	2.02	101	2.00	0.982	
Toluene*	<0.050	0.050	01/26/2023	ND	2.08	104	2.00	0.394	
Ethylbenzene*	<0.050	0.050	01/26/2023	ND	2.11	105	2.00	1.88	
Total Xylenes*	<0.150	0.150	01/26/2023	ND	6.42	107	6.00	0.332	
Total BTEX	<0.300	0.300	01/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	211	105	200	6.84	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	202	101	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 10 A @ 2' (H230373-29)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	211	105	200	6.84	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	202	101	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/31/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	32.261866,-104.117304		

**Sample ID: PH 10 B @ 4' (H230373-30)**

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	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	211	105	200	6.84	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	202	101	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3

Company Name: Ensolum, LLC  
 Project Manager: Hadlie Green  
 Address: 3122 Nat'l Parks Highway  
 City: Carrizbad State: NM Zip: 88220  
 Phone #: 432-557-8895 Fax #: \_\_\_\_\_  
 Project #: 03C2012016 Project Owner: \_\_\_\_\_  
 Project Name: Ogden Substation Tank Overflow  
 Project Location: 32-261866, -104-117304  
 Sampler Name: Meredith Roberts  
 P.O. #: \_\_\_\_\_ Company: BTA Oil  
 Attn: Bob Hall  
 Address: 104 S. Peuss St  
 City: Midland  
 State: TX Zip: 79701  
 Phone #: 432-312-2203  
 Fax #: \_\_\_\_\_

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	BTEX	Chlorides	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
HA30373	PHD1	Ⓢ	5			X						1/25/23	1020	X	X	X
	PHD1A												1035	X		
	PHD1B												1045	X		
	PHD2												1050	X		
	PHD2A												1100	X		
	PHD2B												1410	X		
	PHO3												1415	X		
	PHO3A												1425	X		
	PHO3B												1235	X		
	PHO4													X		

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Relinquished By: Hadlie Green  
 Date: 1/26/23  
 Received By: Meredith Roberts  
 Date: 1/30/23

Delivered By: (Circle One) Observed Temp. °C: 4.7°C Sample Condition:  Intact  Cool  Yes  No  
 Corrected Temp. °C: 4.1°C CHECKED BY: MR  
 Remarks: Incident #: NAPP2230983706  
 Turnaround Time: Standard  Rush  
 Thermometer ID #113 Bacteria (only)  Temp: 2.3°C  
 Correction Factor -0.6°C  131MIL

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





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

Pa 3 of 3

**Company Name:** Ensolum, LLC  
**Project Manager:** Hadlie Green  
**Address:** 3122 Nat'l Parks Hwy  
**City:** Carlsbad **State:** NM **Zip:** 88220  
**Phone #:** 432-557-8895 **Fax #:**  
**Project #:** 03C2012016 **Project Owner:**  
**Project Name:** Dyden Substation Tank Overflow  
**Project Location:** 32.261866, -104.117304  
**Sampler Name:** Meredith Roberts

**BILL TO**  
**P.O. #:**  
**Company:** BTA Oil  
**Attn:** Bob Hall  
**Address:** 104 S. Pecos St.  
**City:** Midland  
**State:** TX **Zip:** 79701  
**Phone #:** 432-312-2203  
**Fax #:**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
1830373	PH07B @	G	1			X				12/26/23	1020	X BTEX								
21	PH08		1								0900	X Chlorides								
23	PH08A		2								0905	X TPH								
24	PH08B		4								0910									
25	PH09		1								0925									
26	PH09A		2								0930									
27	PH09B		4								0935									
28	PH10		1								0945									
29	PH10A		2								0950									
30	PH10B		4								0955									

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**Relinquished By:** *Sheddie*  
**Date:** 1/26/23  
**Time:** 1304  
**Received By:** *Sheddie*  
**Date:**  
**Time:**  
**Received By:**

**Delivered By:** (Circle One)  Standard  Rush  
**Observed Temp. °C:** 6.7  
**Corrected Temp. °C:** 6.1  
**Sample Condition:** Cool Intact  Yes  No  
**Checked By:** *SR*  
**Turnaround Time:**  Standard  Rush  
**Thermometer ID #113**  
**Correction Factor -0.8°C**  
**Bacteria (only) Sample Condition:** Cool Intact  Yes  No  
**Corrected Temp. °C:**

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---

October 26, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/23/23 8:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 01 @ 1' (H235779-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2023	ND	2.01	101	2.00	0.500	
Toluene*	<0.050	0.050	10/26/2023	ND	2.09	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	10/26/2023	ND	2.29	115	2.00	2.13	
Total Xylenes*	<0.150	0.150	10/26/2023	ND	6.99	117	6.00	2.58	
Total BTEX	<0.300	0.300	10/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/25/2023	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	10/24/2023	ND	227	114	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	237	119	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 02 @ 1' (H235779-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2023	ND	2.01	101	2.00	0.500	
Toluene*	<0.050	0.050	10/26/2023	ND	2.09	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	10/26/2023	ND	2.29	115	2.00	2.13	
Total Xylenes*	<0.150	0.150	10/26/2023	ND	6.99	117	6.00	2.58	
Total BTEX	<0.300	0.300	10/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/25/2023	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	10/24/2023	ND	227	114	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	237	119	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 03 @ 1' (H235779-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/25/2023	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	10/24/2023	ND	227	114	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	237	119	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 04 @ 1' (H235779-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 05 @ 1' (H235779-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 06 @ 1' (H235779-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 62.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 07 @ 1' (H235779-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/20/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 08 @ 2' (H235779-08)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>448</b>	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/20/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 09 @ 2' (H235779-09)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/20/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 10 @ 1' (H235779-10)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/20/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 11 @ 1' (H235779-11)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/20/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 12 @ 1' (H235779-12)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/20/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 13 @ 1' (H235779-13)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/23/2023	Sampling Date:	10/20/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 01 @ 0-1' (H235779-14)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76		
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2		
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND						

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 49.1-148

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



2 bags on 2nd shelf

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**Company Name:** ARCOLUM LLC **P.O. #:** 57A OIL

**Project Manager:** Michelle Greer **Address:** 104 S Pecos St

**Address:** 612 Wolf Parks Hwy **City:** Marland **State:** NM **Zip:** 79701

**City:** Quincy **State:** NM **Zip:** 88220

**Phone #:** 432-557-4805 **Fax #:** -

**Project #:** 0802072016 **Project Owner:** BTA

**Project Name:** Doylem Substation Tank Puffing **City:** Marland

**Project Location:** 452.96246 - 104.11691D **State:** NM **Zip:** 79701

**Sampler Name:** William Calderon **Phone #:** -

**FOR LAB USE ONLY**

Lab I.D.	Sample I.D.	(G)GRAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV			
<u>H235779</u>	<u>FS01</u>	<u>(C)</u>	<u>1</u>			<u>X</u>					<u>10/19/23</u>	<u>1300</u>	<u>BTEX</u>
	<u>FS02</u>	<u>(C)</u>	<u>1</u>								<u>10/19/23</u>	<u>1305</u>	<u>TPH</u>
	<u>FS03</u>	<u>(C)</u>	<u>1</u>								<u>10/19/23</u>	<u>1310</u>	<u>Phenols</u>
	<u>FS04</u>	<u>(C)</u>	<u>1</u>								<u>10/19/23</u>	<u>1315</u>	
	<u>FS05</u>	<u>(C)</u>	<u>1</u>								<u>10/19/23</u>	<u>1320</u>	
	<u>FS06</u>	<u>(C)</u>	<u>1</u>								<u>10/19/23</u>	<u>1325</u>	
	<u>FS07</u>	<u>(C)</u>	<u>1</u>								<u>10/19/23</u>	<u>1330</u>	
	<u>FS08</u>	<u>(C)</u>	<u>2</u>								<u>10/21/23</u>	<u>1200</u>	
	<u>FS09</u>	<u>(C)</u>	<u>2</u>								<u>10/21/23</u>	<u>1205</u>	
	<u>FS10</u>	<u>(C)</u>	<u>1</u>								<u>10/21/23</u>	<u>1300</u>	

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**Relinquished By:** [Signature] **Date:** 10-23-23 **Received By:** [Signature] **Date:** 10-23-23

**Relinquished By:** [Signature] **Date:** 10-23-23 **Received By:** [Signature] **Date:** 10-23-23

**Delivered By:** (Circle One) UPS **Observed Temp. °C:** -2.7 **Sample Condition:** Intact **Checked By:** [Signature]

**Sampler:** UPS **Corrected Temp. °C:** - **Sample Condition:** Intact **Checked By:** [Signature]

**Turnaround Time:** Standard **Bacteria (only) Sample Condition:** Observed Temp. °C

**Thermometer ID:** 4140 **Corrected Temp. °C:** 10/23/23

**Remarks:** Have on Arcolum.com folder at Calderon@arcolum.com

**Verbal Result:**  Yes  No **Add'l Phone #:** -

**All Results are emailed. Please provide Email address:** -

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



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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: WESLUM LLC  
 Project Manager: HADLER GREGOR  
 Address: 6772 WAT FARKS HWY  
 City: WASKO State: NM Zip: 88720  
 Phone #: 482-557-8805 Fax #: \_\_\_\_\_  
 Project #: 092012016 Project Owner: BTA  
 Project Name: Damen Substation Tank Overflows  
 Project Location: 35, 20465 (DRIVER)  
 Sampler Name: WESLUM LABORATORIES  
 P.O. #: \_\_\_\_\_ Company: BTA OIL  
 Attn: WELTON BEARD  
 Address: 1615 PEARSON  
 City: MIDLAND  
 State: X Zip: 79701  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL			
<u>H235779</u>	<u>FS11</u>	<u>0 1' (FS11)</u>	<u>2</u>			<u>X</u>					<u>X</u>	<u>10/20/23</u>	<u>0805</u>	<u>BTEX</u>
	<u>FS12</u>	<u>0 1' (FS12)</u>	<u>2</u>			<u>X</u>					<u>X</u>	<u>0810</u>	<u>0815</u>	<u>TOL</u>
	<u>FS13</u>	<u>0 1' (FS13)</u>	<u>2</u>			<u>X</u>					<u>X</u>	<u>0820</u>	<u>0820</u>	<u>Chlorides</u>
	<u>FS14</u>	<u>0 0-1'</u>	<u>2</u>			<u>X</u>					<u>X</u>			

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Relinquished By: [Signature] Date: 10-23-23 Received By: [Signature] Date: 10-23-23  
 Time: 0845  
 Delivered By: (Circle One) Observed Temp. °C: -3.7 Sample Condition: Cool Intact CHECKED BY: [Signature]  
 Corrected Temp. °C: \_\_\_\_\_  
 Turnaround Time: Standard Bacteria (only) Sample Condition: Cool Intact  
 Thermometer ID # 1113 # 1114 Rush Yes  No   
 Correction Factor: 0.00 Yes  No  Corrected Temp. °C: \_\_\_\_\_  
 Verbal Result:  Yes  No  Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: Weslump@wslum.com  
 REMARKS: Weslump@wslum.com  
 APPR25083105  
 Wasko, NM

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

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November 02, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/26/23 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/23/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 15 @ 1' (H235870-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55	
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/23/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 16 @ 1' (H235870-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55	
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 68.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.6 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/23/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 17 @ 1' (H235870-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55	
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 64.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.3 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/23/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 18 @ 1' (H235870-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55	
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/23/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 02 @ 0-1' (H235870-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55		
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11		
Total BTEX	<0.300	0.300	10/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96		
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24		
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND						

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/23/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 03 @ 0-1' (H235870-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55		
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11		
Total BTEX	<0.300	0.300	10/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96		
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24		
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND						

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/23/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 04 @ 0-1' (H235870-07)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTEX	<0.300	0.300	10/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96		
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24		
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND						

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/23/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 05 @ 0-1' (H235870-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 19 @ 1' (H235870-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 20 @ 1' (H235870-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.8 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 21 @ 1' (H235870-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 22 @ 1' (H235870-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 23 @ 1' (H235870-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 24 @ 1' (H235870-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 25 @ 1' (H235870-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 67.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.9 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 26 @ 1' (H235870-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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



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**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 27 @ 1' (H235870-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 28 @ 1' (H235870-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 29 @ 4' (H235870-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 30 @ 2' (H235870-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 31 @ 2' (H235870-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/26/2023	Sampling Date:	10/24/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 32 @ 2' (H235870-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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\*=Accredited Analyte

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



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

**Notes and Definitions**

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

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



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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Gasolium LLC  
 Project Manager: Hadie Greer  
 Address: 8122 West Park's Hwy  
 City: Midland State: NM Zip: 88020  
 Phone #: 402-551-5805 Fax #: -  
 Project #: 0802012010 Project Owner: BTX  
 Project Name: Dawn Substation Tank Operations  
 Project Location: PS-267210-10A (11691)  
 Sampler Name: William Faldonmexico  
 P.O. #: BTX 012  
 Company: Wilton Beard  
 Attn: 1045 Peas St  
 Address: Midland  
 City: Midland  
 State: TX Zip: 79701  
 Phone #: -  
 Fax #: -

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :										
11935870	FS15 @ 1'	C	1			X				10/24/23	300	BTEX							
	FS16 @ 1'					X					1305	TPH							
	FS17 @ 1'					X					1310	chlorides							
	FS18 @ 1'					X					1815								
	SUD02 @ 0-1'					X					1320								
	SUD03 @ 0-1'					X					1325								
	SUD04 @ 0-1'					X					1330								
	SUD05 @ 0-1'					X					1335								
	FS19 @ 1'					X					10/24/23	0900							
	FS20 @ 1'					X					0905								

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Relinquished By: [Signature] Date: 10-20-23 Time: 1:00  
 Received By: [Signature] Date: 10-20-23 Time: 1:00  
 Relinquished By: [Signature] Date: 10-20-23 Time: 1:00  
 Received By: [Signature] Date: 10-20-23 Time: 1:00

Delivered By: (Circle One) Other Observed Temp. °C: 9.00 Corrected Temp. °C: -  
 Sampler - UPS - Bus - Other: Other Sample Condition: Intact  
 Checked By: [Signature] Thermometer ID #49-#140 Correction Factor: -0.5°C

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



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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: <u>PROSOLUM LLC</u> Project Manager: <u>Hadlie Greer</u> Address: <u>8122 Wolf Parks Hwy</u> City: <u>Midland</u> State: <u>NM</u> Zip: <u>88020</u> Phone #: <u>409-551-8895</u> Fax #: <u>-</u> Project #: <u>0802012010</u> Project Owner: <u>BITA</u> Project Name: <u>Daden Substation Tank Overflows</u> Project Location: <u>93.2102410 -104.1166410</u> Sampler Name: <u>Jillanna Faldemund</u>		P.O. #: <u>BITA OIL</u> Company: <u>Wolfson Board</u> Attn: <u>UDS PleasST</u> Address: <u>Midland</u> City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u> Phone #: <u>-</u> Fax #: <u>-</u>	
Lab I.D. <u>H235870</u> Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS
11 <u>ES21 @ 1'</u>		GROUNDWATER	WASTEWATER
13 <u>ES22 @ 1'</u>		SOIL	OIL
14 <u>ES23 @ 1'</u>		SLUDGE	OTHER:
15 <u>ES24 @ 1'</u>		ACID/BASE:	ICE / COOL
16 <u>ES25 @ 1'</u>		OTHER:	DATE
17 <u>ES26 @ 1'</u>		DATE	TIME
18 <u>ES27 @ 1'</u>		DATE	TIME
19 <u>ES28 @ 1'</u>		DATE	TIME
20 <u>ES29 @ 1'</u>		DATE	TIME
21 <u>ES30 @ 2'</u>		DATE	TIME
22 <u>ES31 @ 2'</u>		DATE	TIME
23 <u>ES32 @ 2'</u>		DATE	TIME
24 <u>ES33 @ 2'</u>		DATE	TIME
25 <u>ES34 @ 2'</u>		DATE	TIME
26 <u>ES35 @ 2'</u>		DATE	TIME
27 <u>ES36 @ 2'</u>		DATE	TIME
28 <u>ES37 @ 2'</u>		DATE	TIME
29 <u>ES38 @ 2'</u>		DATE	TIME
30 <u>ES39 @ 2'</u>		DATE	TIME
31 <u>ES40 @ 2'</u>		DATE	TIME
32 <u>ES41 @ 2'</u>		DATE	TIME
33 <u>ES42 @ 2'</u>		DATE	TIME
34 <u>ES43 @ 2'</u>		DATE	TIME
35 <u>ES44 @ 2'</u>		DATE	TIME
36 <u>ES45 @ 2'</u>		DATE	TIME
37 <u>ES46 @ 2'</u>		DATE	TIME
38 <u>ES47 @ 2'</u>		DATE	TIME
39 <u>ES48 @ 2'</u>		DATE	TIME
40 <u>ES49 @ 2'</u>		DATE	TIME
41 <u>ES50 @ 2'</u>		DATE	TIME
42 <u>ES51 @ 2'</u>		DATE	TIME
43 <u>ES52 @ 2'</u>		DATE	TIME
44 <u>ES53 @ 2'</u>		DATE	TIME
45 <u>ES54 @ 2'</u>		DATE	TIME
46 <u>ES55 @ 2'</u>		DATE	TIME
47 <u>ES56 @ 2'</u>		DATE	TIME
48 <u>ES57 @ 2'</u>		DATE	TIME
49 <u>ES58 @ 2'</u>		DATE	TIME
50 <u>ES59 @ 2'</u>		DATE	TIME
51 <u>ES60 @ 2'</u>		DATE	TIME
52 <u>ES61 @ 2'</u>		DATE	TIME
53 <u>ES62 @ 2'</u>		DATE	TIME
54 <u>ES63 @ 2'</u>		DATE	TIME
55 <u>ES64 @ 2'</u>		DATE	TIME
56 <u>ES65 @ 2'</u>		DATE	TIME
57 <u>ES66 @ 2'</u>		DATE	TIME
58 <u>ES67 @ 2'</u>		DATE	TIME
59 <u>ES68 @ 2'</u>		DATE	TIME
60 <u>ES69 @ 2'</u>		DATE	TIME
61 <u>ES70 @ 2'</u>		DATE	TIME
62 <u>ES71 @ 2'</u>		DATE	TIME
63 <u>ES72 @ 2'</u>		DATE	TIME
64 <u>ES73 @ 2'</u>		DATE	TIME
65 <u>ES74 @ 2'</u>		DATE	TIME
66 <u>ES75 @ 2'</u>		DATE	TIME
67 <u>ES76 @ 2'</u>		DATE	TIME
68 <u>ES77 @ 2'</u>		DATE	TIME
69 <u>ES78 @ 2'</u>		DATE	TIME
70 <u>ES79 @ 2'</u>		DATE	TIME
71 <u>ES80 @ 2'</u>		DATE	TIME
72 <u>ES81 @ 2'</u>		DATE	TIME
73 <u>ES82 @ 2'</u>		DATE	TIME
74 <u>ES83 @ 2'</u>		DATE	TIME
75 <u>ES84 @ 2'</u>		DATE	TIME
76 <u>ES85 @ 2'</u>		DATE	TIME
77 <u>ES86 @ 2'</u>		DATE	TIME
78 <u>ES87 @ 2'</u>		DATE	TIME
79 <u>ES88 @ 2'</u>		DATE	TIME
80 <u>ES89 @ 2'</u>		DATE	TIME
81 <u>ES90 @ 2'</u>		DATE	TIME
82 <u>ES91 @ 2'</u>		DATE	TIME
83 <u>ES92 @ 2'</u>		DATE	TIME
84 <u>ES93 @ 2'</u>		DATE	TIME
85 <u>ES94 @ 2'</u>		DATE	TIME
86 <u>ES95 @ 2'</u>		DATE	TIME
87 <u>ES96 @ 2'</u>		DATE	TIME
88 <u>ES97 @ 2'</u>		DATE	TIME
89 <u>ES98 @ 2'</u>		DATE	TIME
90 <u>ES99 @ 2'</u>		DATE	TIME
91 <u>ES100 @ 2'</u>		DATE	TIME
92 <u>ES101 @ 2'</u>		DATE	TIME
93 <u>ES102 @ 2'</u>		DATE	TIME
94 <u>ES103 @ 2'</u>		DATE	TIME
95 <u>ES104 @ 2'</u>		DATE	TIME
96 <u>ES105 @ 2'</u>		DATE	TIME
97 <u>ES106 @ 2'</u>		DATE	TIME
98 <u>ES107 @ 2'</u>		DATE	TIME
99 <u>ES108 @ 2'</u>		DATE	TIME
100 <u>ES109 @ 2'</u>		DATE	TIME
101 <u>ES110 @ 2'</u>		DATE	TIME
102 <u>ES111 @ 2'</u>		DATE	TIME
103 <u>ES112 @ 2'</u>		DATE	TIME
104 <u>ES113 @ 2'</u>		DATE	TIME
105 <u>ES114 @ 2'</u>		DATE	TIME
106 <u>ES115 @ 2'</u>		DATE	TIME
107 <u>ES116 @ 2'</u>		DATE	TIME
108 <u>ES117 @ 2'</u>		DATE	TIME
109 <u>ES118 @ 2'</u>		DATE	TIME
110 <u>ES119 @ 2'</u>		DATE	TIME
111 <u>ES120 @ 2'</u>		DATE	TIME
112 <u>ES121 @ 2'</u>		DATE	TIME
113 <u>ES122 @ 2'</u>		DATE	TIME
114 <u>ES123 @ 2'</u>		DATE	TIME
115 <u>ES124 @ 2'</u>		DATE	TIME
116 <u>ES125 @ 2'</u>		DATE	TIME
117 <u>ES126 @ 2'</u>		DATE	TIME
118 <u>ES127 @ 2'</u>		DATE	TIME
119 <u>ES128 @ 2'</u>		DATE	TIME
120 <u>ES129 @ 2'</u>		DATE	TIME
121 <u>ES130 @ 2'</u>		DATE	TIME
122 <u>ES131 @ 2'</u>		DATE	TIME
123 <u>ES132 @ 2'</u>		DATE	TIME
124 <u>ES133 @ 2'</u>		DATE	TIME
125 <u>ES134 @ 2'</u>		DATE	TIME
126 <u>ES135 @ 2'</u>		DATE	TIME
127 <u>ES136 @ 2'</u>		DATE	TIME
128 <u>ES137 @ 2'</u>		DATE	TIME
129 <u>ES138 @ 2'</u>		DATE	TIME
130 <u>ES139 @ 2'</u>		DATE	TIME
131 <u>ES140 @ 2'</u>		DATE	TIME
132 <u>ES141 @ 2'</u>		DATE	TIME
133 <u>ES142 @ 2'</u>		DATE	TIME
134 <u>ES143 @ 2'</u>		DATE	TIME
135 <u>ES144 @ 2'</u>		DATE	TIME
136 <u>ES145 @ 2'</u>		DATE	TIME
137 <u>ES146 @ 2'</u>		DATE	TIME
138 <u>ES147 @ 2'</u>		DATE	TIME
139 <u>ES148 @ 2'</u>		DATE	TIME
140 <u>ES149 @ 2'</u>		DATE	TIME
141 <u>ES150 @ 2'</u>		DATE	TIME
142 <u>ES151 @ 2'</u>		DATE	TIME
143 <u>ES152 @ 2'</u>		DATE	TIME
144 <u>ES153 @ 2'</u>		DATE	TIME
145 <u>ES154 @ 2'</u>		DATE	TIME
146 <u>ES155 @ 2'</u>		DATE	TIME
147 <u>ES156 @ 2'</u>		DATE	TIME
148 <u>ES157 @ 2'</u>		DATE	TIME
149 <u>ES158 @ 2'</u>		DATE	TIME
150 <u>ES159 @ 2'</u>		DATE	TIME
151 <u>ES160 @ 2'</u>		DATE	TIME
152 <u>ES161 @ 2'</u>		DATE	TIME
153 <u>ES162 @ 2'</u>		DATE	TIME
154 <u>ES163 @ 2'</u>		DATE	TIME
155 <u>ES164 @ 2'</u>		DATE	TIME
156 <u>ES165 @ 2'</u>		DATE	TIME
157 <u>ES166 @ 2'</u>		DATE	TIME
158 <u>ES167 @ 2'</u>		DATE	TIME
159 <u>ES168 @ 2'</u>		DATE	TIME
160 <u>ES169 @ 2'</u>		DATE	TIME
161 <u>ES170 @ 2'</u>		DATE	TIME
162 <u>ES171 @ 2'</u>		DATE	TIME
163 <u>ES172 @ 2'</u>		DATE	TIME
164 <u>ES173 @ 2'</u>		DATE	TIME
165 <u>ES174 @ 2'</u>		DATE	TIME
166 <u>ES175 @ 2'</u>		DATE	TIME
167 <u>ES176 @ 2'</u>		DATE	TIME
168 <u>ES177 @ 2'</u>		DATE	TIME
169 <u>ES178 @ 2'</u>		DATE	TIME
170 <u>ES179 @ 2'</u>		DATE	TIME
171 <u>ES180 @ 2'</u>		DATE	TIME
172 <u>ES181 @ 2'</u>		DATE	TIME
173 <u>ES182 @ 2'</u>		DATE	TIME
174 <u>ES183 @ 2'</u>		DATE	TIME
175 <u>ES184 @ 2'</u>		DATE	TIME
176 <u>ES185 @ 2'</u>		DATE	TIME
177 <u>ES186 @ 2'</u>		DATE	TIME
178 <u>ES187 @ 2'</u>		DATE	TIME
179 <u>ES188 @ 2'</u>		DATE	TIME
180 <u>ES189 @ 2'</u>		DATE	TIME
181 <u>ES190 @ 2'</u>		DATE	TIME
182 <u>ES191 @ 2'</u>		DATE	TIME
183 <u>ES192 @ 2'</u>		DATE	TIME
184 <u>ES193 @ 2'</u>		DATE	TIME
185 <u>ES194 @ 2'</u>		DATE	TIME
186 <u>ES195 @ 2'</u>		DATE	TIME
187 <u>ES196 @ 2'</u>		DATE	TIME
188 <u>ES197 @ 2'</u>		DATE	TIME
189 <u>ES198 @ 2'</u>		DATE	TIME
190 <u>ES199 @ 2'</u>		DATE	TIME
191 <u>ES200 @ 2'</u>		DATE	TIME
192 <u>ES201 @ 2'</u>		DATE	TIME
193 <u>ES202 @ 2'</u>		DATE	TIME
194 <u>ES203 @ 2'</u>		DATE	TIME
195 <u>ES204 @ 2'</u>		DATE	TIME
196 <u>ES205 @ 2'</u>		DATE	TIME
197 <u>ES206 @ 2'</u>		DATE	TIME
198 <u>ES207 @ 2'</u>		DATE	TIME
199 <u>ES208 @ 2'</u>		DATE	TIME
200 <u>ES209 @ 2'</u>		DATE	TIME
201 <u>ES210 @ 2'</u>		DATE	TIME
202 <u>ES211 @ 2'</u>		DATE	TIME
203 <u>ES212 @ 2'</u>		DATE	TIME
204 <u>ES213 @ 2'</u>		DATE	TIME
205 <u>ES214 @ 2'</u>		DATE	TIME
206 <u>ES215 @ 2'</u>		DATE	TIME
207 <u>ES216 @ 2'</u>		DATE	TIME
208 <u>ES217 @ 2'</u>		DATE	TIME
209 <u>ES218 @ 2'</u>		DATE	TIME
210 <u>ES219 @ 2'</u>		DATE	TIME
211 <u>ES220 @ 2'</u>		DATE	TIME
212 <u>ES221 @ 2'</u>		DATE	TIME



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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: <u>PROSOLUM LLC</u>		P.O. #: <u>BTA OIL</u>									
Project Manager: <u>HADIE GREER</u>		Company: <u>WALTON BEARD</u>									
Address: <u>8122 WOLF PARKWAY</u>		Attn: <u>1045 PEARCE ST</u>									
City: <u>WILKESBAO</u>		Address: <u>MIDLAND</u>									
Phone #: <u>482-557-8895</u>		City: _____									
Project #: <u>0802012010</u>		State: <u>TX</u> Zip: <u>79701</u>									
Project Name: <u>DODEN SUBSTATION TANK OVERFLOW</u>		Phone #: _____									
Project Location: <u>939.2102410 -104.116410</u>		Fax #: _____									
Sampler Name: <u>JILLIANNA FALCONMATT</u>		DATE									
FOR LAB USE ONLY		TIME									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	chlorides
		GROUNDWATER									
<u>11835870</u>	<u>ESB 021</u>	<u>C</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>10/24/23</u>	<u>1305</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>02</u>	<u>ESB 021</u>						<u>1310</u>				

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Relinquished By: [Signature]  
Date: 10/24/23  
Time: 1400

Received By: [Signature]  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Delivered By: (Circle One)  
Sample - UPS - Bus - Other: \_\_\_\_\_  
Observed Temp. °C: 10.0  
Corrected Temp. °C: \_\_\_\_\_

Turnaround Time: \_\_\_\_\_  
Standard  Rush   
Thermometer ID # 1117  
Corrosion Factor 0.99  
Bacteria (only) Sample Condition  
Cool Intact  Yes  No  
Corrected Temp. °C: \_\_\_\_\_

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



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

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November 20, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/16/23 9:13.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 14 2 FT (H236266-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 33 2 FT (H236266-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 34 2 FT (H236266-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 35 2 FT (H236266-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 36 2 FT (H236266-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37		
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739		
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND						

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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



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**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 37 2 FT (H236266-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37		
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739		
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND						

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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



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**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 38 2 FT (H236266-07)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 39 2 FT (H236266-08)**

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	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37		
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739		
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND						

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 40 2 FT (H236266-09)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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



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**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 41 2 FT (H236266-10)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.3 % 49.1-148

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



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**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 42 4 FT (H236266-11)**

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	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37		
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739		
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND						

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 43 4 FT (H236266-12)**

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	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37		
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739		
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND						

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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



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**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: FS 44 4 FT (H236266-13)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.8 % 49.1-148

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



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**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 06 0-2 (H236266-14)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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



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**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 07 0-2 (H236266-15)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 08 0-2 (H236266-16)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 09 0-2 (H236266-17)**

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	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42		
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831		
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND						

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 10 0-4 (H236266-18)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 11 0-4 (H236266-19)**

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	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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



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**Analytical Results For:**

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

Received:	11/16/2023	Sampling Date:	11/14/2023
Reported:	11/20/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.26246,-104.11690		

**Sample ID: SW 12 0-4 (H236266-20)**

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	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42		
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831		
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Handwritten signature of Mike Snyder

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





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

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

Company Name: Ensolum, LLC

**BILL TO**

**ANALYSIS REQUEST**

Project Manager: Hadlie Green  
 Address: 3122 National Sparks Hwy  
 City: Carlisle State: NM Zip: 88220  
 Phone #: 432-557-8895 Fax #:  
 Project #: 03C202016 Project Owner:  
 Project Name: Ogden Substation Tankoverhaul  
 Project Location: 32.26246 - 104.11691  
 Sampler Name: Sarah Welton  
 P.O. #: Company: BIA Oil  
 Attn: Kelton Beard  
 Address: 105 Sycos St  
 City: Midland  
 State: TX Zip: 79701  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	PRESERV.		DATE	TIME	ANALYSIS REQUEST		
			ICE / COOL	OTHER :			CL	BTEX	TPH
11/13/23	ES42	4ft	X		11/13/23	10:00	X	X	X
11/13/23	ES43	4ft	X		11/13/23	10:10	X	X	X
11/13/23	ES44	4ft	X		11/13/23	10:35	X	X	X
11/14/23	S006	0-2			11/14/23	10:45	X	X	X
11/14/23	S007	0-2			11/14/23	11:05	X	X	X
11/14/23	S008	0-2			11/14/23	11:45	X	X	X
11/14/23	S009	0-2			11/14/23	11:50	X	X	X
11/14/23	S010	0-2			11/14/23	13:10	X	X	X

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Reinquisitioned By: [Signature]  
 Date: 11/16/23  
 Time: 07:34  
 Received By: [Signature]  
 Date: 11/16/23  
 Time: 09:13

Reinquisitioned By: [Signature]  
 Date: 11/16/23  
 Time: 09:13

Delivered By: (Circle One)  
 Observed Temp. °C: 1.7  
 Corrected Temp. °C: [Blank]  
 Sample Condition: Cool Intact [X] Yes [ ] No [ ]  
 Checked By: [Signature]

Turnaround Time: #140  
 Standard Rush [X] Add'l Phone #: [Blank]  
 Bacteria (only) Sample Condition: Cool Intact [X] Yes [ ] No [ ]  
 Corrected Temp. °C: [Blank]



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

---

November 30, 2023

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

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/29/23 10:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/29/2023	Sampling Date:	11/29/2023
Reported:	11/30/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.261866,-104.117304		

**Sample ID: SW 13 0'-2' (H236412-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.82	91.0	2.00	7.67	
Toluene*	<0.050	0.050	11/29/2023	ND	1.85	92.6	2.00	7.97	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.86	93.0	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.52	91.9	6.00	7.82	
Total BTEX	<0.300	0.300	11/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/29/2023	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	11/29/2023	ND	225	113	200	3.21	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	225	113	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: <b>Ensdun</b> Project Manager: <b>Hedie Green</b> Address: <b>601 N. Marland St. #400</b> City: <b>Midland</b> State: <b>TX</b> zip: <b>79701</b> Phone #: <b>432-557-8895</b> Fax #: _____ Project #: <b>03C2022016</b> Project Owner: _____ Project Name: <b>Oxygen Substation Tank Overflow</b> Project Location: <b>32.261866, -104.117304</b> Sampler Name: <b>Peter Van Patten</b>		<b>BILL TO</b> P.O. #: _____ Company: <b>BTA Oil</b> Attn: <b>Kelton Beard</b> Address: <b>104 S. Ross St</b> City: <b>Midland</b> State: <b>TX</b> zip: <b>79701</b> Phone #: <b>432-312-2203</b> Fax #: _____	
FOR LAB USE ONLY Lab I.D. <b>A330412</b> Sample I.D. <b>SW13</b>		Matrix: <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: _____ Preserv: <input checked="" type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER: _____	
Date: <b>11-29-23</b> Time: <b>1040</b> Date: _____ Time: _____		DATE: <b>11-29-23</b> TIME: <b>845</b>	
Relinquished By: <b>[Signature]</b> Relinquished By: _____		Received By: <b>[Signature]</b> Received By: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <b>38</b> Corrected Temp. °C: _____		Sample Condition: Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition: Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time: <b>Standard</b> Rush: <input type="checkbox"/> <b>24 hr</b> Bacteria (only) Sample Condition: Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: REMARKS: <b>ngreen@ensdun.com</b>	

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



APPENDIX E  
NMOCD Notifications

---

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Hadlie Green](#)  
**Cc:** [Peter Van Patten](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] BTA - Containment Inspection - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)  
**Date:** Thursday, October 26, 2023 2:07:18 PM

---

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

Hi Hadlie,

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

Thank you,

*Shelly*

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

---

**From:** Hadlie Green <[hgreen@ensolum.com](mailto:hgreen@ensolum.com)>  
**Sent:** Thursday, October 26, 2023 12:49 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Peter Van Patten <[pvanpatten@ensolum.com](mailto:pvanpatten@ensolum.com)>  
**Subject:** [EXTERNAL] BTA - Containment Inspection - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)

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

To Whom It May Concern,

Below is an email notification for liner inspection at BTA Oil Producers, LLC (BTA) Ogden Substation Tank Overflow, Spill Date 11-4-2022. This is a notification that Ensolum is scheduled to inspect this lined containment on behalf of BTA on Monday, October 30, 2023. Please call with any questions or concerns.

GPS: 32.26246, -104.11691

Thank you,



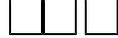
**Hadlie Green**

Project Geologist

432-557-8895

hgreen@ensolum.com

**Ensolum, LLC**



**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Hadlie Green](#)  
**Cc:** [Kelton Beaird](#); [Tacoma Morrissey](#); [Aimee Cole](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Subject:** RE: [EXTERNAL] BTA - Sampling Notification - Week of 11/6/2023  
**Date:** Thursday, November 2, 2023 3:41:20 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Hi Hadlie,

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

Thank you,

*Shelly*

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

---

**From:** Hadlie Green <[hgreen@ensolum.com](mailto:hgreen@ensolum.com)>  
**Sent:** Thursday, November 2, 2023 2:21 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Kelton Beaird <[KBeaird@btaoil.com](mailto:KBeaird@btaoil.com)>; Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Aimee Cole <[acole@ensolum.com](mailto:acole@ensolum.com)>  
**Subject:** [EXTERNAL] BTA - Sampling Notification - Week of 11/6/2023

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 November 6, 2023.

- Ogden Substation Tank Overflow / NAPP2230983706

Sampling Date: 11/7-8/2023 @ 9:00 AM MST

- Vaca West Tank Battery / nAPP2202849030
  - Sampling Date: 11/9/2023 @ 9:00 AM MST

Thank you,



**Hadlie Green**

Project Geologist

432-557-8895

[hgreen@ensolum.com](mailto:hgreen@ensolum.com)

**Ensolum, LLC**



**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Hadlie Green](#)  
**Cc:** [KBeaird@btaoil.com](mailto:KBeaird@btaoil.com); [Tacoma Morrissey](#); [Aimee Cole](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Subject:** RE: [EXTERNAL] BTA - Extension Request - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)  
**Date:** Tuesday, November 14, 2023 8:48:04 AM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

You don't often get email from [robert.hamlet@emnrd.nm.gov](mailto:robert.hamlet@emnrd.nm.gov). [Learn why this is important](#)

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

Hadlie,

The OCD Spill Rule states, "The responsible party must submit information characterizing the release to the appropriate division district office within 90 days of discovery of the release or characterize the release by submitting a final closure report within 90 days of discovery of the release in accordance with Subsection E of 19.15.29.12 NMAC. The responsible party may seek an extension of time to submit characterization information for good cause as determined by the division. A remediation plan was due for this incident on **2/2/2023**. A onetime extension of 30 days is granted for the above release. Please have a remediation plan and/or closure report loaded to the payment portal no later than 12/14/2023. On future incidents, if an extension is requested outside of the 90 day deadline, it will be denied. Please include this e-mail correspondence in the remediation plan and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Monday, November 13, 2023 9:53 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] BTA - Extension Request - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)

**From:** Hadlie Green <[hgreen@ensolum.com](mailto:hgreen@ensolum.com)>

**Sent:** Friday, November 10, 2023 1:26 PM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>

**Cc:** Kelton Beard <[KBeard@btaoil.com](mailto:KBeard@btaoil.com)>; Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Aimee Cole <[acole@ensolum.com](mailto:acole@ensolum.com)>

**Subject:** [EXTERNAL] BTA - Extension Request - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)

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

All,

BTA is requesting an extension for the current deadline of November 19, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Ogden Substation Tank Overflow (Incident Number nAPP2230983706). The release was discovered on November 4, 2022. Initial site assessment activities have been completed and excavation activities are ongoing. In order to complete the additional remediation activities and submit a remediation work plan or closure report, BTA requests a 30-day extension of this deadline until December 19, 2023.

Thank you,



**Hadlie Green**

Project Geologist

432-557-8895

[hgreen@ensolum.com](mailto:hgreen@ensolum.com)

**Ensolum, LLC**

in f 

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Hadlie Green](#)  
**Cc:** [Kelton Beard](#); [Tacoma Morrissey](#); [Aimee Cole](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] BTA - Sampling Notification - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)  
**Date:** Monday, November 13, 2023 10:50:56 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Hi Hadlie,

The OCD has received your notification. Notification requirements are **two full 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 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Hadlie Green <[hgreen@ensolum.com](mailto:hgreen@ensolum.com)>  
**Sent:** Friday, November 10, 2023 10:51 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Kelton Beard <[KBeard@btaoil.com](mailto:KBeard@btaoil.com)>; Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Aimee Cole <[acole@ensolum.com](mailto:acole@ensolum.com)>  
**Subject:** [EXTERNAL] BTA - Sampling Notification - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)

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

All,

BTA anticipates collecting confirmation samples at the following location on Tuesday, November 14, 2023.

- Ogden Substation Tank Overflow / nAPP2230983706
  - Sampling Date: 11/14/2023 @ 9:00 AM MST
  - GPS: 32.26246, -104.11691

Thank you,



**Hadlie Green**

Project Geologist

432-557-8895

[hgreen@ensolum.com](mailto:hgreen@ensolum.com)

**Ensolum, LLC**

**in f** 



APPENDIX F

Final C-141

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

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

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

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	

## Release Notification

### Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2230983706
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

### Location of Release Source

Latitude: 32.26246 Longitude: -104.11691

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ogden Substation Tank Overflow	Site Type: Tank Battery
Date Release Discovered: 11/4/2022	API# (if applicable) Nearest well:

Unit Letter	Section	Township	Range	County
E	32	23S	28E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name:)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 988 BBL	Volume Recovered (bbls) 972 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pump Failure. A transfer pump failed to start, allowing the tanks to overflow into the secondary containment. The containment completely filled and overflowed. Recovered 100 BW with vacuum trucks from the ground and recovered the 872 BW volume of the secondary containment. Spill Volume Calculation is attached.

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  The release volume exceeded 25 BBL fluid.
---	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  
 NOR assigned the present Incident ID nAPP2230983706 was filed on 11/5/2022.

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

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

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

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

Printed Name: **Bob Hall** Title: **Environmental Manager**

Signature: \_\_\_\_\_/s/ Bob Hall Date: **11/17/2022**

email: **bhall@btaoil.com** Telephone: **432-682-3753**

**OCD Only**

Received by: Jocelyn Harimon Date: 11/18/2022

**Location** Ogden Water Station

**API #**

**Spill Date** 11/4/2022

**Spill Dimensions**

**ENTER** - Length of Spill  feet  
**ENTER** - Width of Spill  feet  
**ENTER** - Saturation Depth of Spill  inches

**ENTER** - Porosity Factor  decimal

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

Oil   
 Water   
 Calculated Oil Cut

**Volume Recovered in Truck / Containment**

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

**Calculated Values**

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

**Calculated Values**

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

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

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

X Oil Cut  
 (or Water Cut)

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

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

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

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

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

CONDITIONS

Action 159896

**CONDITIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 159896
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jharimon	None	11/18/2022

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	

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

Printed Name: Kelton Beard Title: Environmental Manager

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

email: kbeard@btaoil.com Telephone: 432-312-2203

**OCD Only**

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

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	

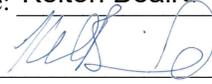
## Closure

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

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

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

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

Printed Name: Kelton Beaird Title: Environmental Manager  
 Signature:  Date: \_\_\_\_\_  
 email: kbeaird@btaoil.com Telephone: 432-312-2203

**OCD Only**

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

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

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

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

**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

Action 294623

**QUESTIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 294623
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2230983706
Incident Name	NAPP2230983706 OGDEN SUBSTATION TANK OVERFLOW @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[FAB1904636949] OGDEN 20509 SWD SUBSTATION TANK BATTERY

**Location of Release Source**

Please answer all the questions in this group.

Site Name	OGDEN SUBSTATION TANK OVERFLOW
Date Release Discovered	11/04/2022
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 for 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: Overflow - Tank, Pit, Etc.   Pump   Produced Water   Released: 988 BBL   Recovered: 972 BBL   Lost: 16 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	Pump failed to start. Overflowed water tanks. Secondary containment completely filled and overflowed. Recovered 100 BW with vacuum trucks from ground.

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QUESTIONS, Page 2

Action 294623

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 294623
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>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.</i>	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a 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.

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

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

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/14/2023
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QUESTIONS, Page 3

Action 294623

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	294623
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
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, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	38000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	400.9
GRO+DRO (EPA SW-846 Method 8015M)	348
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 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.*

On what estimated date will the remediation commence	11/21/2022
On what date will (or did) the final sampling or liner inspection occur	11/16/2023
On what date will (or was) the remediation complete(d)	11/16/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	8845
What is the estimated volume (in cubic yards) that will be remediated	504

*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 in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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Action 294623

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 294623
	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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/14/2023
--	--

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

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QUESTIONS, Page 5

Action 294623

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 294623
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 294623

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 294623
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>294619</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>11/14/2023</b>
What was the (estimated) number of samples that were to be gathered	<b>57</b>
What was the sampling surface area in square feet	<b>8845</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
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	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>8845</b>
What was the total volume (cubic yards) remediated	<b>504</b>
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	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>0</b>
What was the total volume (in cubic yards) reclaimed	<b>0</b>
Summarize any additional remediation activities not included by answers (above)	<b>Excavation was backfilled with non-waste containing soil. Area will be reclaimed upon pad P&amp;A</b>

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

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

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/14/2023
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Action 294623

**QUESTIONS (continued)**

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

**QUESTIONS**

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

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CONDITIONS

Action 294623

**CONDITIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 294623
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	None	2/20/2024