



July 30, 2024

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

**Re: Closure Request
PLU 29-20 Big Sinks #155H
Incident Number nAPP2405152557
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities at the PLU 29-20 Big Sinks #155H (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil into a lined containment and onto the well pad. Based on soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2405152557.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 30, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.104774°, -103.81724°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 6, 2024, equipment failure on a production flowline resulted in the release of approximately 28 barrels (bbls) of produced water onto the pad surface and adjacent pasture. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Form C-141 Application (C-141) on February 20, 2024. The release was assigned Incident Number nAPP2405152557.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring C-4624 POD 1, located approximately 0.23 miles south of the Site. On June 22, 2022, the soil boring was drilled by XTO utilizing a truck-mounted air rotary rig to determine regional depth to groundwater in the area. The soil boring was advanced to a total depth of 120 feet bgs. A field geologist logged and described soils continuously. No

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moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater in the area is greater than 120 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. All wells used to determine depth to groundwater are depicted on Figure 1. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 4,555 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES

On March 14, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Eleven delineation soil samples (SS01 through SS11) were collected within and around the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. The delineation 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 delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

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

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Laboratory analytical results for delineation soil samples SS01 through SS11 indicated that all COC concentrations were compliant with the Closure Criteria and reclamation requirement.

DELINATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

On April 2, 2024, Ensolum personnel returned to the Site to collect additional delineation soil samples to assess presence or absence of impacts in the subsurface. Soil samples were collected at the locations of SS01 through SS04 and SS11 at depths ranging from 1 foot to 2 feet bgs. The soil samples were field screened for VOCs and chloride. Field screening results and visual observations were documented on lithologic/soil sampling logs which are included in Appendix C. Laboratory analytical results for all delineation soil samples indicated all COC concentrations were compliant with the Closure Criteria and the reclamation requirement, successfully defining the lateral and vertical extent of the release. As such, Ensolum personnel proceeded to complete surface confirmation soil sampling.

Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the release extent at a depth of 0.5 feet bgs. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The confirmation soil samples were field screened for VOCs and chloride. The confirmation soil sample locations are depicted on Figure 3. The delineation and confirmation soil samples were handled as described above and delivered to Cardinal in Hobbs, New Mexico.

Laboratory analytical results for all confirmation soil samples indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for confirmation soil samples CS06, CS08, CS12, CS16, CS18 through CS21, CS23, CS24, CS26, CS27, CS30, and CS36 indicated that TPH and/or chloride concentrations exceeded the reclamation requirement. Based on the laboratory analytical results for the confirmation soil samples, removal of the waste-containing soil was warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between June 25 and June 26, 2024, Ensolum personnel were at the Site to oversee excavation activities. Waste-containing soil was excavated from the release area as indicated by laboratory analytical results for the confirmation soil samples. Excavation activities were performed using a trackhoe and transport vehicle. The excavation occurred on the well pad and in the adjacent pasture. To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The composite samples were collected and handled as previously described. Excavation floor soil samples FS01 through FS14 were collected from the floor of the excavation at a depth of 0.8 feet to 1 foot bgs. Excavation sidewall soil samples SW01 through SW05 were collected from the sidewalls of the excavation at depths ranging from ground surface to 1 foot bgs. The excavation extent and floor and sidewall soil sample locations are presented on Figure 4.

The excavation extent measured approximately 2,700 square feet. A total of approximately 85 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

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LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the final confirmation soil samples indicated that all COC concentrations were compliant with the Closure Criteria and the reclamation requirement. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 6, 2024, release of produced water. Although no confirmation soil samples exceeded Closure Criteria, some samples exceeded the reclamation requirement. Waste-containing soil was removed and final excavation confirmation samples confirmed COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of waste-containing soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2405152557.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "D. McInnis".

David McInnis
Project Geologist

A handwritten signature in black ink, appearing to read "T Morrissey".

Tacoma Morrissey
Associate Principal

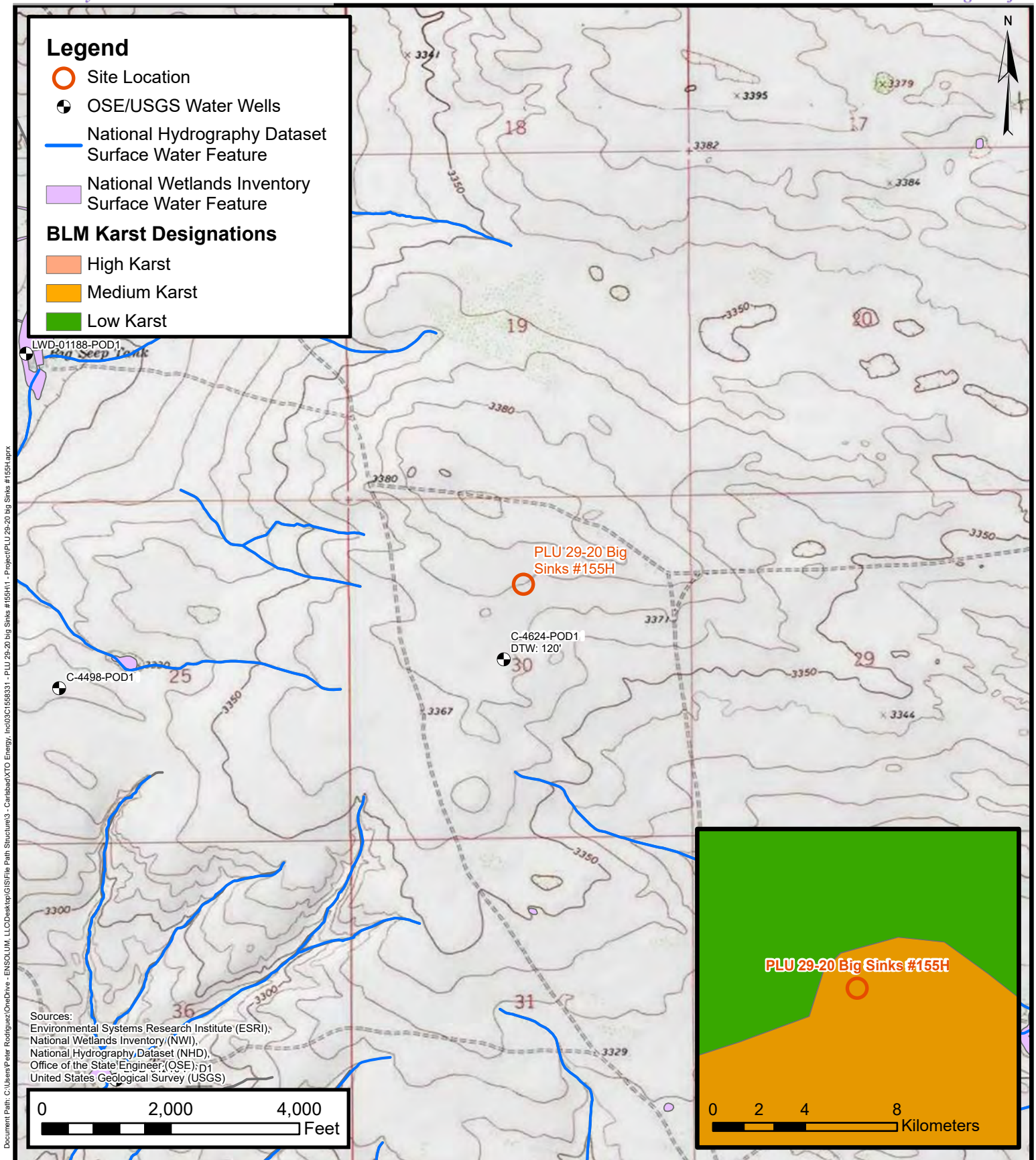
cc: Amy Ruth, XTO
Alan Romero, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Figure 4	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



FIGURES



Site Receptor Map

XTO Energy, Inc

PLU 29-20 Big Sinks #155H

Incident Number: nAPP2405152557

Unit G, Sec 30, T 25S, R 31E

Eddy County, New Mexico

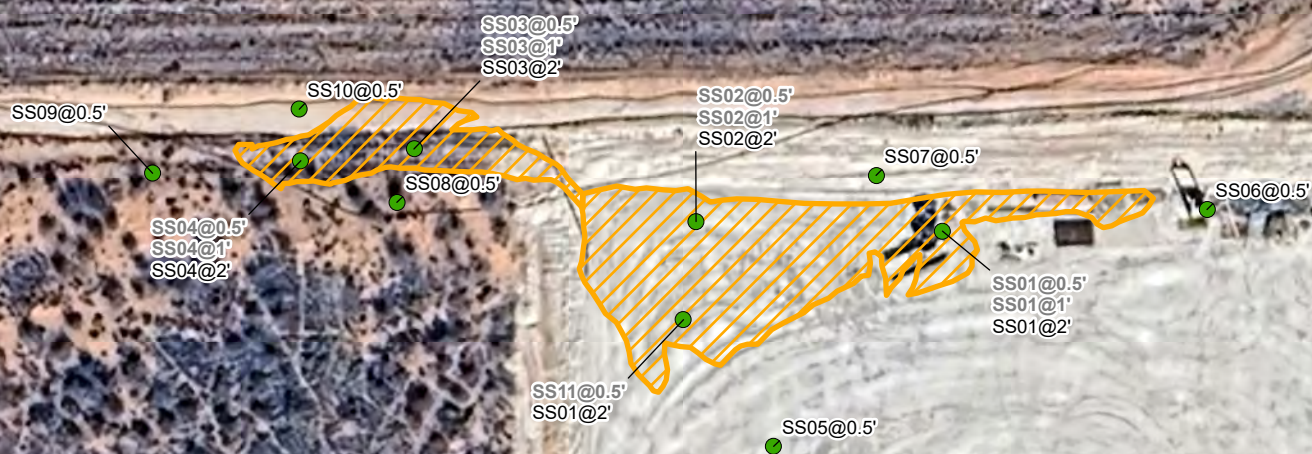
FIGURE

1



Legend

- Delineation Soil Sample
in Compliance with
Closure Criteria
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable
 closure criteria.
 Grey text indicate soil sample was removed during
 excavation activities.

0 15 30 60 90 120
 Feet

Sources: Environmental Systems Research Institute (ESRI)

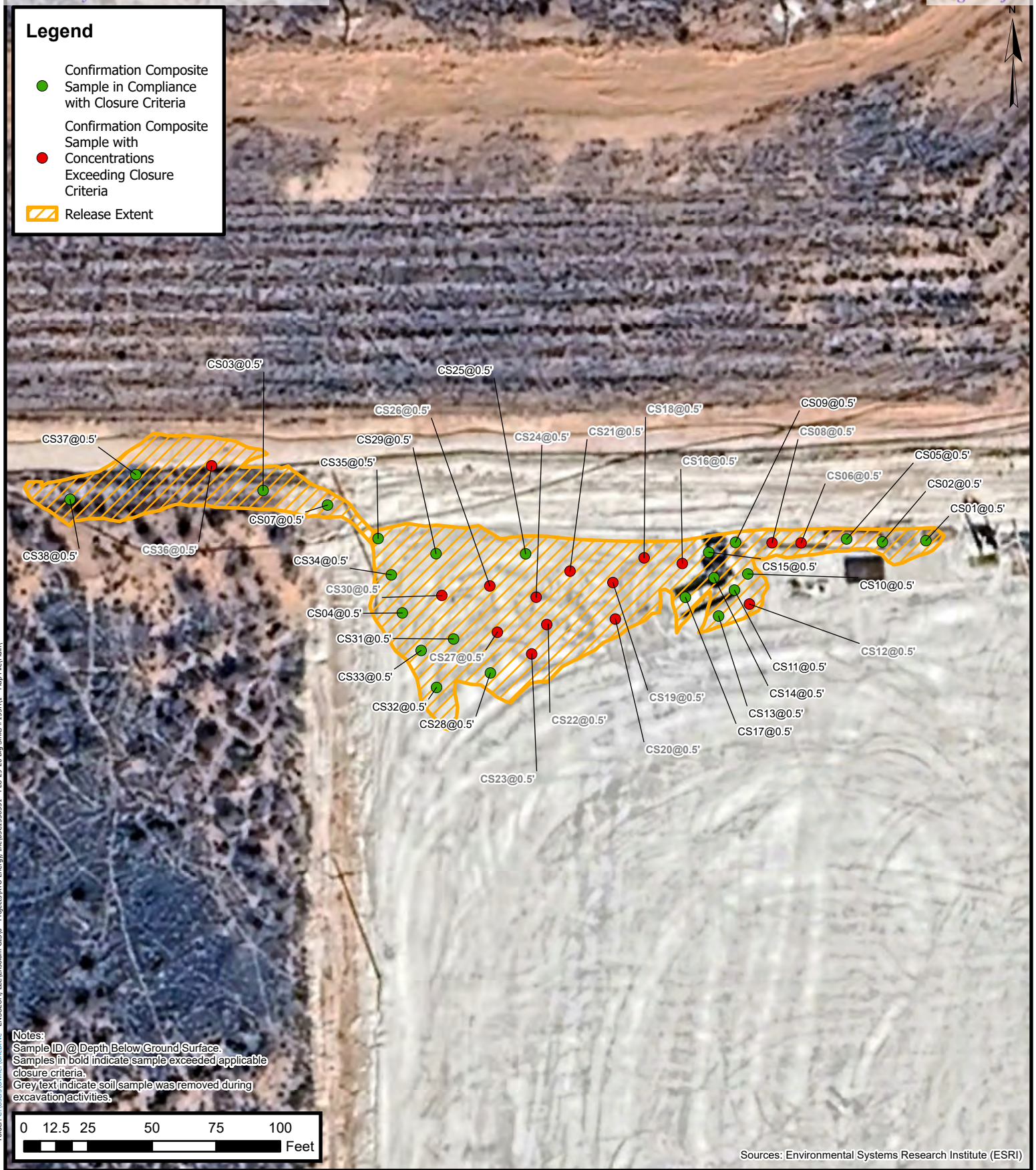


Delineation Soil Sample Locations

XTO Energy, Inc
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 Unit G, Sec 30, T 25S, R 31E
 Eddy County, New Mexico

FIGURE

2



Confirmation Soil Sample Locations

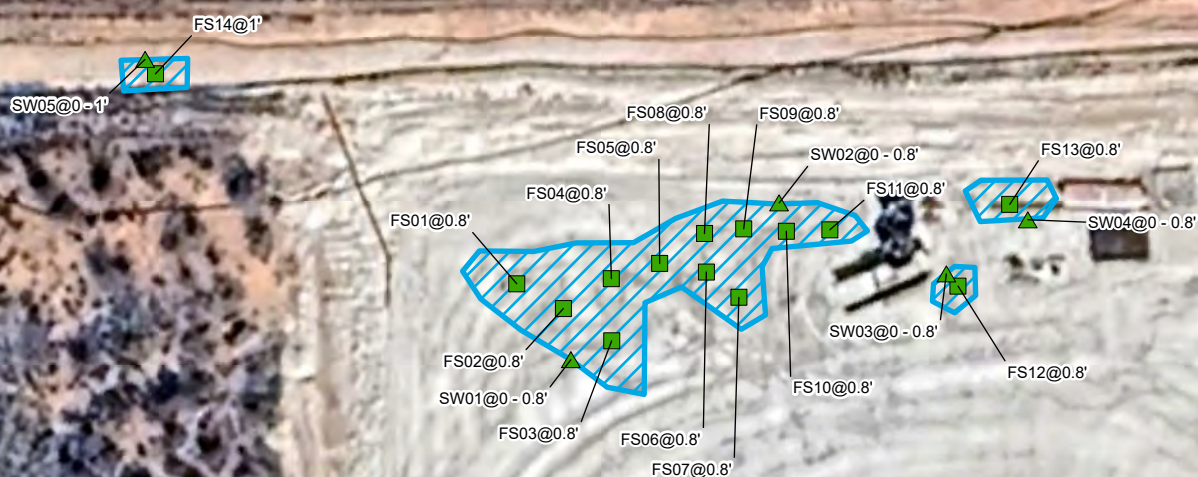
XTO Energy, Inc
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Incident Number: nAPP2405152557
Unit G, Sec 30, T 25S, R 31E
Eddy County, New Mexico

FIGURE
3



Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- ▨ Excavation Extent



Notes:
Sample ID@Depth Below Ground Surface.

0 12.5 25 50 75 100
Feet

Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

XTO Energy, Inc
PLU 29-20 Big Sinks #155H
Incident Number: nAPP2405152557
Unit G, Sec 30, T 25S, R 31E
Eddy County, New Mexico

FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
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 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS01	04/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SS01	04/02/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS02	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS02	04/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SS02	04/02/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS03	04/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS03	04/02/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160.0
SS04	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SS04	04/02/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SS04	04/02/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS06	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS07	03/14/2024	0.5	<0.050	<0.300	<10.0	14.6	<10.0	14.6	14.6	112
SS08	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS10	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS11	03/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS11	04/02/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0



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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	1,000	2,500	20,000
Confirmation Soil Samples										
CS01	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS02	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS03	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
CS04	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS05	04/02/2024	0.5	<0.050	<0.300	<10.0	13.8	<10.0	13.8	13.8	368
CS06	04/02/2024	0.5	<0.050	<0.300	<10.0	25.0	<10.0	25.0	25.0	1,490
CS07	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS08	04/02/2024	0.5	<0.050	<0.300	<10.0	11.9	<10.0	11.9	11.9	624
CS09	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS10	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
CS11	04/02/2024	0.5	<0.050	<0.300	<10.0	70.6	<10.0	70.6	70.6	384
CS12	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
CS13	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS14	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS15	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
CS16	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
CS17	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS18	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	960
CS19	04/02/2024	0.5	<0.050	<0.300	<10.0	154	<10.0	154	154	1,010
CS20	04/02/2024	0.5	<0.050	<0.300	<10.0	249	13.1	249	262	912
CS21	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
CS22	04/02/2024	0.5	<0.050	<0.300	<10.0	130	<10.0	130	130	512
CS23	04/02/2024	0.5	<0.050	<0.300	<10.0	69.0	<10.0	69.0	69.0	1,060
CS24	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688
CS25	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
CS26	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640



TABLE 1
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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	1,000	2,500	20,000
CS27	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,020
CS28	04/02/2024	0.5	<0.050	<0.300	<10.0	13.4	<10.0	13.4	13.4	352
CS29	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS30	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
CS31	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS32	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS33	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS34	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
CS35	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS36	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
CS37	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS38	04/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
Excavation Soil Samples										
FS01	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS02	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS03	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS04	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS05	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS06	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS07	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS08	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS09	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS10	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS11	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS12	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS13	06/25/2024	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS14	06/26/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW01	06/26/2024	0 - 0.8	<0.050	<0.300	<10.0	23.3	<10.0	23.3	23.3	208
SW02	06/26/2024	0 - 0.8	<0.050	<0.300	<10.0	37.9	<10.0	37.9	37.9	224



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 29-20 Big Sinks #155H XTO Energy, Inc Eddy County, New Mexico										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW03	06/26/2024	0 - 0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW04	06/26/2024	0 - 0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW05	06/26/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

Notes:

- bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.
- GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4624 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-4624		
	WELL OWNER NAME(S) XTO ENERGY INC				PHONE (OPTIONAL) 432-236-3808		
	WELL OWNER MAILING ADDRESS 6401 HOLIDAY HILL ROAD				CITY MIDLAND	STATE TX	ZIP 79707
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 5.66 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	49	5.79 W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE ON POKER LAKE UNIT 30 BS # 103H PAD							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE	
	DRILLING STARTED 06/22/22	DRILLING ENDED 06/22/22	DEPTH OF COMPLETED WELL (FT) 120	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	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) FROM TO		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)
				NO CASING IN HOLE			
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4624-POD1	POD NO. POD1	TRN NO. 726169
LOCATION 25S.31E.30.4.4.1	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

WR-20 WELL RECORD & LOG (Version 04/30/2019)



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, INC
PLU 29-20 Big Sinks 155H
nAPP2405152557



Photograph: 1 Date: 2/7/2024
Description: Point of initial release
View: Southeast

Photograph: 2 Date: 2/7/2024
Description: Soil staining in release footprint
View: Northwest



Photograph: 3 Date: 4/2/2024
Description: Delineation activities
View: Northwest

Photograph: 4 Date: 6/25/2024
Description: Excavation activities
View: Southeast



Photographic Log
 XTO Energy, INC
 PLU 29-20 Big Sinks 155H
 nAPP2405152557

Date & Time: Tue, Jun 25, 2024 at 13:39:29 MDT
 Position: +032.104762° / -103.816939° (±16.4ft)
 Altitude: 3389ft (±9.7ft)
 Datum: WGS-84
 Azimuth/Bearing: 281° N79W 499mils True (±13°)
 Elevation Angle: -10.6°
 Horizon Angle: -00.7°
 Zoom: 1.0X
 PLU 29-20



Photograph: 1 Date: 6/25/2024
 Description: Excavation activities
 View: Northwest

Date & Time: Wed, Jun 26, 2024 at 10:26:43 MDT
 Position: +032.104709° / -103.817294° (±20.1ft)
 Altitude: 3388ft (±19.9ft)
 Datum: WGS-84
 Azimuth/Bearing: 061° N61E 1084mils True (±14°)
 Elevation Angle: -06.8°
 Horizon Angle: -00.5°
 Zoom: 1.0X
 PLU 29-20 155H



Photograph: 2 Date: 6/26/2024
 Description: Final excavation extent
 View: Northeast

Date & Time: Wed, Jun 26, 2024 at 10:28:12 MDT
 Position: +032.104830° / -103.816897° (±16.1ft)
 Altitude: 3388ft (±10.2ft)
 Datum: WGS-84
 Azimuth/Bearing: 264° S84W 4693mils True (±16°)
 Elevation Angle: -08.1°
 Horizon Angle: -00.0°
 Zoom: 1.0X
 PLU 29-20 155H



Photograph: 3 Date: 6/26/2024
 Description: Final excavation extent
 View: Southwest

Date & Time: Wed, Jun 26, 2024 at 10:29:11 MDT
 Position: +032.104958° / -103.817263° (±15.9ft)
 Altitude: 3396ft (±10.5ft)
 Datum: WGS-84
 Azimuth/Bearing: 288° N72W 1020mils True (±14°)
 Elevation Angle: -11.1°
 Horizon Angle: -00.4°
 Zoom: 1.0X
 PLU 29-20 155H





Photograph: 4 Date: 6/26/2024
 Description: Final pasture excavation extent
 View: Northwest





APPENDIX C


Lithologic / Soil Sampling Logs

 ENSOLUM Environmental, Engineering and Hydrogeologic Consultants							Sample Name: SS01		Date: 3/14/24, 4/2/24	
							Site Name: PLU 29-20 Big Sinks #155H			
							Incident Number: NAPP2405152557			
							Job Number: 03C1558331			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: CW US		Method: Handauger	
Coordinates: 32.110478, -103.81691							Hole Diameter: 4"		Total Depth: 2'	
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. A 40% correction factor is included in all chloride screenings.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
M	168	0.5	Y	SS01	0.5	0	CCHE	0-2' CALICHE light brown, medium to coarse grains, sub-rounded grains, poorly sorted, no stain, no odor, moist.		
M	<168	0.2	N	SS01	1	1				
M	<168	0.4	N	SS01	2	2				
						TD		Total Depth @ 2' bgs		

 ENSOLUM Environmental, Engineering and Hydrogeologic Consultants					Sample Name: SS02		Date: 3/14/24, 4/2/24	
					Site Name: PLU 29-20 Big Sinks #155H			
					Incident Number: NAPP2405152557			
					Job Number: 03C1558331			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: CW US		Method: Handauger	
Coordinates: 32.10479, -103.81722					Hole Diameter: 4"		Total Depth: 2'	
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. A 40% correction factor is included in all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	274	0.0	Y	SS02	0.5	0	CCHE	0-2' CALICHE light brown, medium to coarse grains, sub-rounded grains, poorly sorted, no stain, no odor, moist.
M	<168	0.1	N	SS02	1	1		
M	<168	0.3	N	SS02	2	2		
						TD		Total Depth @ 2' bgs.

 ENSOLUM Environmental, Engineering and Hydrogeologic Consultants						Sample Name: SS03		Date: 3/14/24, 4/2/24	
						Site Name: PLU 29-20 Big Sinks #155H			
						Incident Number: NAPP2405152557			
						Job Number: 03C1558331			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: CW US		Method: Handauger	
Coordinates: 32.10487, -103.81758						Hole Diameter: 4"		Total Depth: 2'	
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. A 40% correction factor is included in all chloride screenings.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
M	<168	0.0	Y	SS03	0.5	0	SP	0- 0.5' SAND with silt. Red/brown, very fine grained well sorted, sub-rounded grains, no odor, moist	
M	<168	0.0	N	SS03	1	1	SP	0.5- 1.5' SAND with clay. Red/brown, very fine grained well sorted, sub-rounded grains, no odor, no staining moist	
M	168	0.0	N	SS03	2	2		1.5-2' SAND with silt. Red/brown, very fine grained well sorted, sub-rounded grains, no odor, no staining moist	
						TD		Total Depth @ 2' bgs.	

 ENSOLUM Environmental, Engineering and Hydrogeologic Consultants						Sample Name: SS04		Date: 3/14/24, 4/2/24	
						Site Name: PLU 29-20 Big Sinks #155H			
						Incident Number: NAPP2405152557			
						Job Number: 03C1558331			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: CW US		Method: Handauger	
Coordinates: 32.10485, -103.81779						Hole Diameter: 4"		Total Depth: 2'	
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. A 40% correction factor is included in all chloride screenings.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
M	<168	0.0	Y	SS04	0.5	0	SP	0- 0.5' SAND with silt. Red/brown, very fine grained poorly sorted, sub-rounded grains, no odor, moist	
M	<168	0.0	N	SS04	1	1		0.5- 2' SAND with clay. Red/brown, very fine grained poorly sorted, sub-rounded grains, no odor, no staining moist	
M	<168	0.0	N	SS04	2	2		Total Depth @ 2'	
						TD			

 ENSOLUM Environmental, Engineering and Hydrogeologic Consultants					Sample Name: SS11		Date: 3/14/24, 4/2/24	
					Site Name: PLU 29-20 Big Sinks #155H			
					Incident Number: NAPP2405152557			
					Job Number: 03C1558331			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: CW US		Method: Handauger	
Coordinates: 32.10469, -103.81724					Hole Diameter: 4"		Total Depth: 2'	
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. A 40% correction factor is included in all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<168	0.0	Y	SS11	0.5	0	CCHE	0-2' CALICHE light brown, medium to coarse grains, sub-rounded grains, poorly sorted, no stain, no odor, moist.
M	<168	0.1	N	SS11	2	2 TD		Total Depth @ 2' bgs.



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

March 22, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29-20 BIG SINKS #155H

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 12:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 01 0.5' (H241380-01)

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	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/18/2024	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	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 49.1-148

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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 02 0.5' (H241380-02)

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	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/19/2024	ND	416	104	400	7.41	

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	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.6 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 03 0.5' (H241380-03)

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	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/19/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 04 0.5' (H241380-04)

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	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/19/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 05 0.5' (H241380-05)

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	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEx	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/19/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 06 0.5' (H241380-06)

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	03/20/2024	ND	2.17	109	2.00	0.305		
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151		
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323		
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261		
Total BTEx	<0.300	0.300	03/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/19/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 65.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.2 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 07 0.5' (H241380-07)

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	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/19/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	14.6	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 08 0.5' (H241380-08)

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	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEx	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/19/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 09 0.5' (H241380-09)

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	03/20/2024	ND	2.17	109	2.00	0.305		
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151		
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323		
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261		
Total BTEX	<0.300	0.300	03/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/19/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/18/2024
Reported: 03/22/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO

Sampling Date: 03/14/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SS 10 0.5' (H241380-10)

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	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/19/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 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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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13



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

April 09, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29-20 BIG SINKS #155H

Enclosed are the results of analyses for samples received by the laboratory on 04/04/24 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 01 0.5' (H241751-01)

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	04/05/2024	ND	2.09	104	2.00	0.924	
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/09/2024	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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 02 0.5' (H241751-02)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEx	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/09/2024	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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	23.8	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 03 0.5' (H241751-03)

BTX 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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	04/09/2024	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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 04 0.5' (H241751-04)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEx	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/09/2024	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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 05 0.5' (H241751-05)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEx	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/09/2024	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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	13.8	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 06 0.5' (H241751-06)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	04/09/2024	ND	400	100	400	7.69	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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	25.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 07 0.5' (H241751-07)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEx	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 08 0.5' (H241751-08)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	11.9	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 09 0.5' (H241751-09)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEx	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 10 0.5' (H241751-10)

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	04/05/2024	ND	2.09	104	2.00	0.924	
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/09/2024	ND	400	100	400	7.69	

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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 11 0.5' (H241751-11)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEx	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/09/2024	ND	400	100	400	7.69	

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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	70.6	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 12 0.5' (H241751-12)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEx	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 13 0.5' (H241751-13)

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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTEx	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	210	105	200	2.07	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	203	102	200	0.417	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 14 0.5' (H241751-14)

BTX 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	04/05/2024	ND	2.09	104	2.00	0.924		
Toluene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.859		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.97	98.6	2.00	0.643		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.70	94.9	6.00	0.472		
Total BTX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 15 0.5' (H241751-15)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 16 0.5' (H241751-16)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 17 0.5' (H241751-17)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	54.3	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 18 0.5' (H241751-18)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEx	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 19 0.5' (H241751-19)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	154	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 20 0.5' (H241751-20)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	04/09/2024	ND	400	100	400	7.69	

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	249	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	13.1	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 21 0.5' (H241751-21)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 22 0.5' (H241751-22)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	130	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 23 0.5' (H241751-23)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	69.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 24 0.5' (H241751-24)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 25 0.5' (H241751-25)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	04/09/2024	ND	400	100	400	7.69		

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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 26 0.5' (H241751-26)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	04/09/2024	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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 27 0.5' (H241751-27)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEx	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	04/09/2024	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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 28 0.5' (H241751-28)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	04/09/2024	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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	13.4	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 29 0.5' (H241751-29)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEx	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/09/2024	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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 30 0.5' (H241751-30)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	04/09/2024	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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 31 0.5' (H241751-31)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/09/2024	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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 32 0.5' (H241751-32)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/09/2024	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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 33 0.5' (H241751-33)

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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/09/2024	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	04/05/2024	ND	199	99.7	200	0.365	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	199	99.6	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 34 0.5' (H241751-34)

BTX 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	04/05/2024	ND	2.01	101	2.00	0.269		
Toluene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	0.0586		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	0.276		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.95	99.2	6.00	0.461		
Total BTX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 63.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 35 0.5' (H241751-35)

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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 36 0.5' (H241751-36)

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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 37 0.5' (H241751-37)

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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTEx	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/09/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: CS 38 0.5' (H241751-38)

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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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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

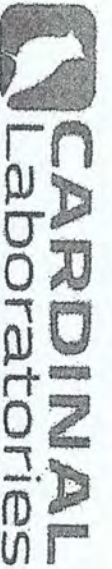
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A handwritten signature in black ink, appearing to read "Caley D. Keene".

Caley D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

L of 4

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST										
Project Manager: Ben Bellini		Company: XTO Energy												
Address: 3122 National Parks Hwy		Attn: Amy Ruth												
City: Carlsbad		Address: 3024 E. Greene St												
State: NM Zip: 88220		City: Carlsbad												
Phone #: 989-954-0852 Fax #:		State: NM Zip: 88220												
Project #: 03G1558331 Project Owner:		Phone #:												
Project Name: PLU 29-20 Big Sinks # 155H		Fax #:												
Project Location: 32.104774 -103.81724														
Sampler Name: Uriel Santillana														
FOR LAB USE ONLY														
Lab I.D. 4241751	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	Chlorides	TPH	BTEX		
1	CS01	0.5'	C	1				4/22/24	15:40	X	X	X		
2	CS02								15:48					
3	CS03								15:50					
4	CS04								15:52					
5	CS05								15:54					
6	CS06								15:56					
7	CS07								15:58					
8	CS08								16:00					
9	CS09								16:02					
10	CS10								16:04					
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Relinquished By: [Signature]		Date: 4/3/24		Received By: [Signature]		Date: 4/4/24		Time: 16:00		Remarks: Incident # : NAPP2405152557 Cost Center: 2258941001 API: 30-015-54267				
Relinquished By: [Signature]		Date: 4/4/24		Received By: [Signature]		Date: 4/4/24		Time: 13:20		Remarks: Incident # : NAPP2405152557 Cost Center: 2258941001 API: 30-015-54267				
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: [Signature]		Turnaround Time:		Standard		Bacteria (only) Sample Condition		
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)		Rush		Yes		Cool Intact		
				Yes				Yes		Yes		Observed Temp. °C		
				No				No		No		Corrected Temp. °C		
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:														
All Results are emailed. Please provide Email address:														
bellini@ensolum.com														

† Cardinal cannot accept verbal changes. Please email changes to celej@ensolum.com



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Ben Bellini

Address: 3122 National Parks Hwy

City: 3122 National Parks Hwy

Phone #: 989-854-0832

Project #: 03C1558331

Project Name: PLY 29-20 BIO SINKS #155H

Project Location: 32.104774, 103.81724

Sampler Name: UNCL Santhilana

FOR LAB USE ONLY

Lab I.D. H341751

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE/COOL
OTHER :

DATE

TIME
Chlorides
TPH
BTEX

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Relinquished By:

Date: 4/3/24

Received By:

U Dant

Relinquished By:

Date: 4/6/24

Received By:

Delivered By: (Circle One)

On Arrives Temp. °C

Sample Condition

Checked By:

Turnaround Time:

Standard

Bacteria (only) Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition

Checked By:

Turnaround Time:

Standard

Bacteria (only) Sample Condition

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Ben Belli

Address: 3122 National Parks Hwy

Company: XTO Energy

City: Carlsbad

State: NM Zip: 88220

Attn: 3104 E. Greendyke

Phone #: 989-854-0852 Fax #:

Address: Amy Ruth

Project #: 0361558331 Project Owner:

City: Carlsbad

Project Name: PU 29-20 Big Sinks #1554

State: NM Zip: 88220

Project Location: 32.104774 -103.81724

Phone #:

Sampler Name: WRIEL SANTILLANA

Fax #:

FOR LAB USE ONLY

#241751
Lab I.D.

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride

TPH

BTEX

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Relinquished By:

Date: 4/3/24

Received By:

Relinquished By:

Date: 4/3/24

Received By:

Delivered By: (Circle One)

Observed Temp. °C: 1.8°C

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Corrected Temp. °C: 1.4°C

Coat Intact

Yes ☒ No ☐

Turnaround Time:

Standard Rush

Coat Intact

Yes ☒ No ☐

Turnaround Time:

Standard Rush

Coat Intact

Yes ☒ No ☐

† Cardinal cannot accept verbal changes. Please email changes to celaya.kenne@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

[illegible]



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

April 10, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29-20 BIG SINKS #155H

Enclosed are the results of analyses for samples received by the laboratory on 04/04/24 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 01 A 1' (H241753-01)

BTX 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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 01 B 2' (H241753-02)

BTX 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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 02 A 1' (H241753-03)

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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 02 B 2' (H241753-04)

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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 11 0.5' (H241753-05)

BTX 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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 11 A 2' (H241753-06)

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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/09/2024	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	04/05/2024	ND	192	96.2	200	3.49	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	189	94.5	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 03 A 1' (H241753-07)

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	04/05/2024	ND	2.08	104	2.00	5.74		
Toluene*	<0.050	0.050	04/05/2024	ND	2.19	109	2.00	5.37		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.21	110	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.60	110	6.00	5.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/09/2024	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	04/05/2024	ND	208	104	200	2.54	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	192	96.1	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 03 B 2' (H241753-08)

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	04/05/2024	ND	1.93	96.5	2.00	8.88		
Toluene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	4.63		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	3.89		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.11	102	6.00	3.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/09/2024	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	04/05/2024	ND	208	104	200	2.54	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	192	96.1	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 04 A 1' (H241753-09)

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	04/05/2024	ND	1.93	96.5	2.00	8.88		
Toluene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	4.63		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	3.89		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.11	102	6.00	3.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/09/2024	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	04/05/2024	ND	208	104	200	2.54	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	192	96.1	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/04/2024
Reported: 04/10/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 04/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 04 B 2' (H241753-10)

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	04/05/2024	ND	1.93	96.5	2.00	8.88		
Toluene*	<0.050	0.050	04/05/2024	ND	1.96	97.8	2.00	4.63		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	3.89		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.11	102	6.00	3.70		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/09/2024	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	04/05/2024	ND	208	104	200	2.54	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	192	96.1	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Enscoium, LLC		BILL TO		ANALYSIS REQUEST	
Project Manager: Ben Belli		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy			
City: Carlsbad		Attn: Amy Ruth			
Phone #: 989-854-0852		Address: 3104 E. Greene St			
Fax #: 989-854-0852		City: Carlsbad			
Project #: 03C155 8331		State: NM Zip: 08220			
Project Name: PLU 29-20 Big Sinks #155H		Phone #:			
Project Location: 32.104774 -103.81724		Fax #:			
Sampler Name: VME1\$antillano		PRESERV.		SAMPLING	
FOR LAB USE ONLY				5	

FOR LAB USE ONLY					
Lab I.D.					
Sample I.D.					
Depth (feet)					
# CONTAINERS					
GROUNDWATER					
WASTEWATER					
SOIL					
OIL					
SLUDGE					
OTHER :					
ACID/BASE:					
ICE / COOL					
OTHER :					
DATE					
TIME					
Chlorides					
TPH					
BTEX					
SS01A	1'	(G) RAB OR (G) OMP.			
SS01B	2'				
SS02A	1'				
SS02B	2'				
SS11	0-5'				
SS11A	2'				
SS03A	1'				
SS03B	2'				
SS04A	1'				
SS04B	2'				

Relinquished By: _____ **Date:** 11/1/01 **Received By:** _____ **Medical Records:** _____

Requisitioned By:	Date: 4/3/12	Received By:	Verbal Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 1600	Time: 4/4/12	All Results are emailed. Please provide Email address:			
	Date: 4/4/12	Received By:	bell@bell bbell@ensolium.com			
	Time: 13:20		REMARKS: INCIDENT # : NAPP2405152537			
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	Turnaround Time:	Standard	<input checked="" type="checkbox"/> Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Initiated	Thermometer ID	flush	<input type="checkbox"/> Cool Initiated	Observed Temp. °C
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	444	4434	Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C
		Checked By: (Initials)	Correction Factor	date	4434	

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



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

July 03, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29-20 BIG SINKS #155H

Enclosed are the results of analyses for samples received by the laboratory on 06/27/24 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

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
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 06/27/2024
 Reported: 07/03/2024
 Project Name: PLU 29-20 BIG SINKS #155H
 Project Number: 03C1558331
 Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 01 0.8 (H243850-01)

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	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 114 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 02 0.8 (H243850-02)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	128	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 03 0.8 (H243850-03)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	112	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 108 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 04 0.8 (H243850-04)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	128	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 107 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 05 0.8 (H243850-05)

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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTEX	<0.300	0.300	07/02/2024	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	96.0	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 06 0.8 (H243850-06)

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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 07 0.8 (H243850-07)

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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	07/02/2024	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	07/03/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 08 0.8 (H243850-08)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 09 0.8 (H243850-09)

BTX 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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTX	<0.300	0.300	07/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 10 0.8 (H243850-10)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEx	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 11 0.8 (H243850-11)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEX	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 12 0.8 (H243850-12)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEx	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/25/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 13 0.8 (H243850-13)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEx	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 106 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 01 0-0.8 (H243850-14)

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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	23.3	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 02 0-0.8 (H243850-15)

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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/02/2024	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	07/02/2024	ND	185	92.4	200	3.66	
DRO >C10-C28*	37.9	10.0	07/02/2024	ND	174	87.2	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 105 % 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
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 03 0-0.8 (H243850-16)

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	07/02/2024	ND	1.93	96.5	2.00	1.88	
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07	
Total BTEX	<0.300	0.300	07/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/02/2024	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	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 04 0-0.8 (H243850-17)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEx	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/02/2024	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	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 14 1 (H243850-18)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEX	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/02/2024	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	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/27/2024
Reported: 07/03/2024
Project Name: PLU 29-20 BIG SINKS #155H
Project Number: 03C1558331
Project Location: XTO 32.104774, -103.81724

Sampling Date: 06/26/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 05 01 (H243850-19)

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	07/02/2024	ND	1.93	96.5	2.00	1.88		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	6.53		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.32	116	2.00	8.58		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	7.20	120	6.00	8.07		
Total BTEX	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/02/2024	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	07/02/2024	ND	184	92.1	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	174	87.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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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A handwritten signature in black ink, appearing to read "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

1 of 2

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST			
Project Manager: David Mcinnis dmclnns@ensolum.com				P.O. #:				Company: XTO Energy Inc.			
Address: 3122 National Parks Hwy				Attn: Amy Ruth				Address: 3104 E. Green St.			
City: Carlsbad				State: NM Zip: 88220				City: Carlsbad			
Phone #: 337 257-8307				Fax #:				State: NM Zip: 88220			
Project #: 03C1558331				Project Owner: XTO				Phone #:			
Project Name: PLU 29-20 Big Sinks #155H				Matrix:				DATE			
Project Location:				GROUNDWATER				TIME			
Sample Name: Connor Whitman				WASTEWATER				BTEX			
FOR LAB USE ONLY				SOIL				TPH			
Lab I.D.				SLUDGE				CHLORIDE			
Sample I.D.				OTHER :							
Sample Depth (feet)				ACID/BASE:							
(G)RAB OR (C)OMP.				ICE / COOL							
# CONTAINERS				OTHER :							
MATRIX				PRESERV.							
SAMPLING											
DATE											
TIME											
1213850				0.8				1215			
1				1220				1225			
2				1230				1235			
3				1240				1245			
4				1250				1255			
5				1300							
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Relinquished By: **Chh** Date: **6-27-24** Time: **1230** Received By: **AS** Date: **6-27-24** Time: **1230**

Delivered By: (Circle One) **O** Observed Temp. **38.1**°C **C** Corrected Temp. **38.1**°C Sample Condition **Intact** **Yes** **No** Checked By: **AS** (Initials)

Sampler - UPS - Bus - Other: **UPS** Turnaround Time: **27-24** Standard **Rush** Bacteria (only) Sample Condition **Intact** **Yes** **No** Observed Temp. **38.1**°C **C** Corrected Temp. **38.1**°C

REMARKS: Cost Center: 2258941001 Incident ID: NAPP2405152557

Verbal Result: ☐ Yes ☐ No Add'l Phone #: **bbell@ensolum.com, TMorrissey@ensolum.com, dmclnns@ensolum.com**

All Results are emailed. Please provide Email address: **bbell@ensolum.com, TMorrissey@ensolum.com, dmclnns@ensolum.com**

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 368311

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	368311
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2405152557
Incident Name	NAPP2405152557 PLU 29-20 BIG SINKS #155H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 29-20 Big Sinks #155H
Date Release Discovered	02/06/2024
Surface Owner	Federal

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: Equipment Failure Flow Line - Production Produced Water Released: 28 BBL Recovered: 0 BBL Lost: 28 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)	Not answered.

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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 368311

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	368311
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Nature and Volume of Release (continued)**

Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a 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: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/20/2024
--	--

District I

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District III

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District IV

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

QUESTIONS, Page 3

Action 368311

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	368311
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	512
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	37.9
GRO+DRO	(EPA SW-846 Method 8015M)	37.9
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	03/14/2024
On what date will (or did) the final sampling or liner inspection occur	06/26/2024
On what date will (or was) the remediation complete(d)	06/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	2700
What is the estimated volume (in cubic yards) that will be reclaimed	85
What is the estimated surface area (in square feet) that will be remediated	2700
What is the estimated volume (in cubic yards) that will be remediated	85

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
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District IV
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QUESTIONS, Page 4

Action 368311

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 368311
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/30/2024
<i>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.</i>	

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District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 368311

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 368311
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 368311

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	368311
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	356623
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/26/2024
What was the (estimated) number of samples that were to be gathered	44
What was the sampling surface area in square feet	8800

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2700
What was the total volume (cubic yards) remediated	85
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2700
What was the total volume (in cubic yards) reclaimed	85
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the February 6, 2024, release of produced water. Although no confirmation soil samples exceeded Closure criteria, some samples exceeded the reclamation requirement. Waste-containing soil was removed and final excavation confirmation samples confirmed COC concentrations samples confirmed COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Excavation of waste-containing soil has mitigated impacts at this Site.

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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/30/2024
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QUESTIONS, Page 7

Action 368311

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	368311
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

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CONDITIONS

Action 368311

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 368311
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2405152557 PLU 29-20 BIG SINKS #155H, thank you. This Remediation Closure Report is approved.	8/20/2024