



September 26, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLU 20 DTD Pad A
Incident Number nAPP2418460531
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 20 DTD Pad A (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 produced water onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing site assessment, delineation, and excavation activities that have occurred and requesting no further action for Incident Number nAPP2418460531.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 20, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20793°, -103.90713°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On June 28, 2024, a failure with a production flow line resulted in the release of approximately 24 barrels (bbls) of produced water onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 5 bbls of released produced water were recovered. XTO reported the release to the NMOCD via Notification of Release (NOR) on July 2, 2024, and submitted an Initial Notification C-141 Application (C-141) on July 3, 2024. The release was assigned Incident Number nAPP2418460531.

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. 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 a recent soil boring for determination of regional groundwater depth. On November 22, 2022, a soil boring (C-04676 POD 1) was drilled 0.45 miles of the Site utilizing a track-mounted hollow-stem auger rig. Soil boring C-04676 POD 1 was drilled to a depth of 120 feet bgs. A field geologist logged and described

soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater was 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 186 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On July 2, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit. On July 7, 2024, Ensolum personnel returned to the Site to complete delineation activities. Twelve delineation potholes (PH01 to PH12) were advanced via backhoe to maximum depths ranging from 2 feet bgs to 3 feet bgs within the release extent, to assess the vertical extent of the release. Discrete soil samples were collected from depths ranging from surface to 3 feet bgs. The delineation soil samples were field screened for volatile organic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chlorides utilizing Hach® QuanTab® test strips. The delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2. Photographic documentation is included in Appendix B. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

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 Standards Method 4500.

Laboratory analytical results for delineation soil samples PH01 through PH12 indicated that BTEX and TPH concentrations were compliant with the Closure Criteria. Delineation soil samples PH05, PH06, PH09, and PH10 indicated that chloride concentrations exceeded the Closure Criteria. Based on visible staining in the release area and laboratory analytical results for the delineation soil samples, excavation activities were warranted.

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Closure Request
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EXCAVATION SOIL SAMPLING ACTIVITIES

On July 9, 2024 through July 11, 2024, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for the delineation soil samples. Excavation activities were performed using a backhoe and transport vehicle. The excavation occurred on the well pad. To direct excavation activities, Ensolum personnel field screened soil for VOCs and chlorides. 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 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. Confirmation soil samples FS01 through FS163 were collected from the floor of the excavation at depths of 1 foot to 3 feet bgs. Confirmation sidewall soil samples SW01 through SW12 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. Seven confirmation soil samples (CS01 through CS07) were taken on the eastern and southern portion of the release extent at approximately 0.5 feet bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations are presented on Figures 3A and 3B.

The final excavation extent measured approximately 32,600 square feet. A total of approximately 2,450 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the confirmation floor soil samples FS01 through FS163 and sidewall soil samples SW01 through SW12, collected at depths ranging from ground surface to 3 feet bgs indicated that all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for the confirmation soil samples CS01 through CS07 indicated that all COC concentrations were compliant with the Closure Criteria and confirmed no impacted soil was identified in those areas. 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 June 28, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2418460531.

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

XTO Energy, Inc
Closure Request
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Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Tracy Hillard".

Tracy Hillard
Staff Engineer

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

Tacoma Morrissey
Associate Principal

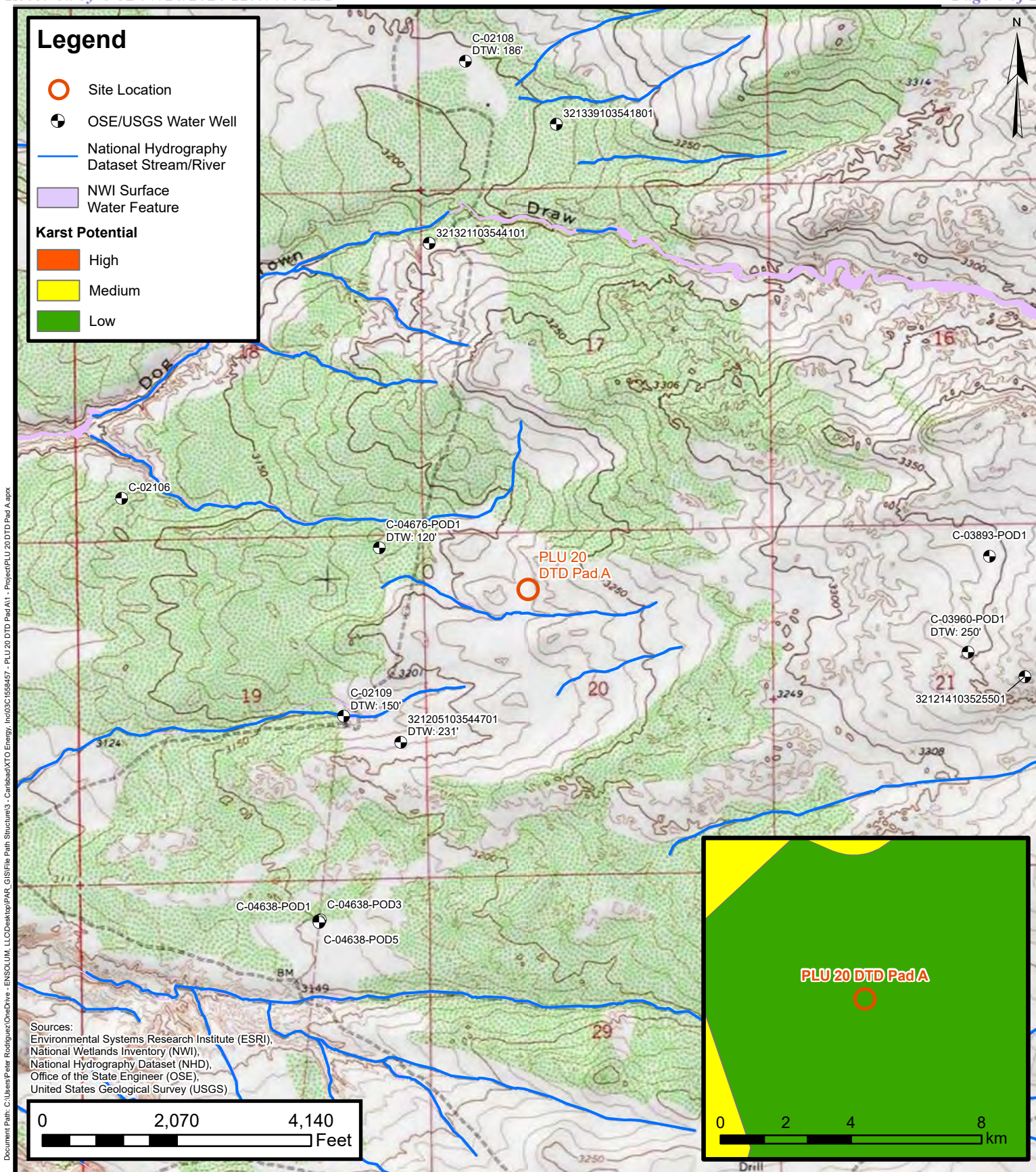
cc: Amy Ruth, XTO
Amanda Garcia, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3A/ 3B	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



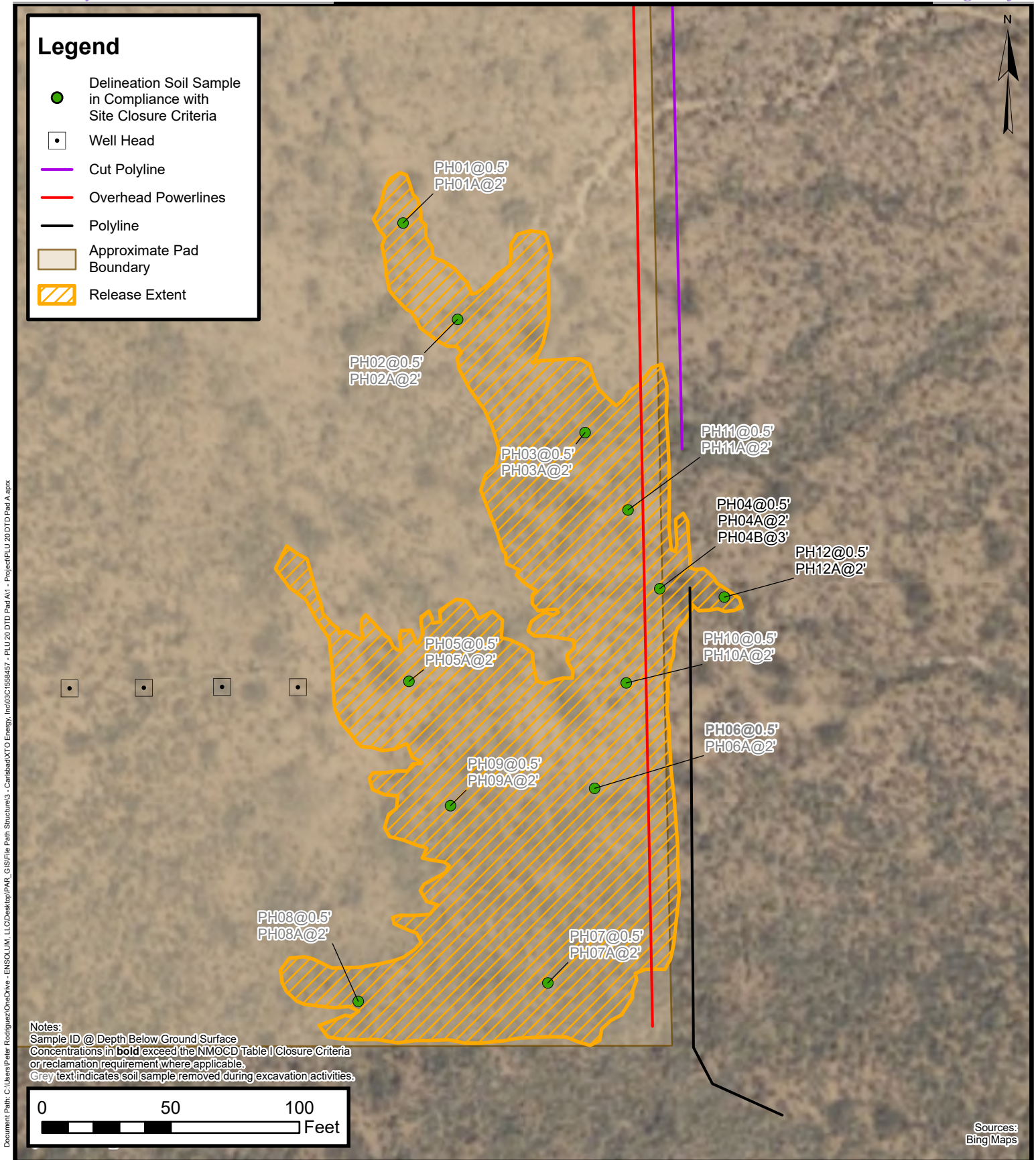
Site Receptor Map

XTO Energy, Inc
 PLU 20 DTD Pad A
 Incident Number: nAPP2418460531
 Unit C, S20, T 24S, R 30E
 Eddy County, New Mexico

FIGURE

1

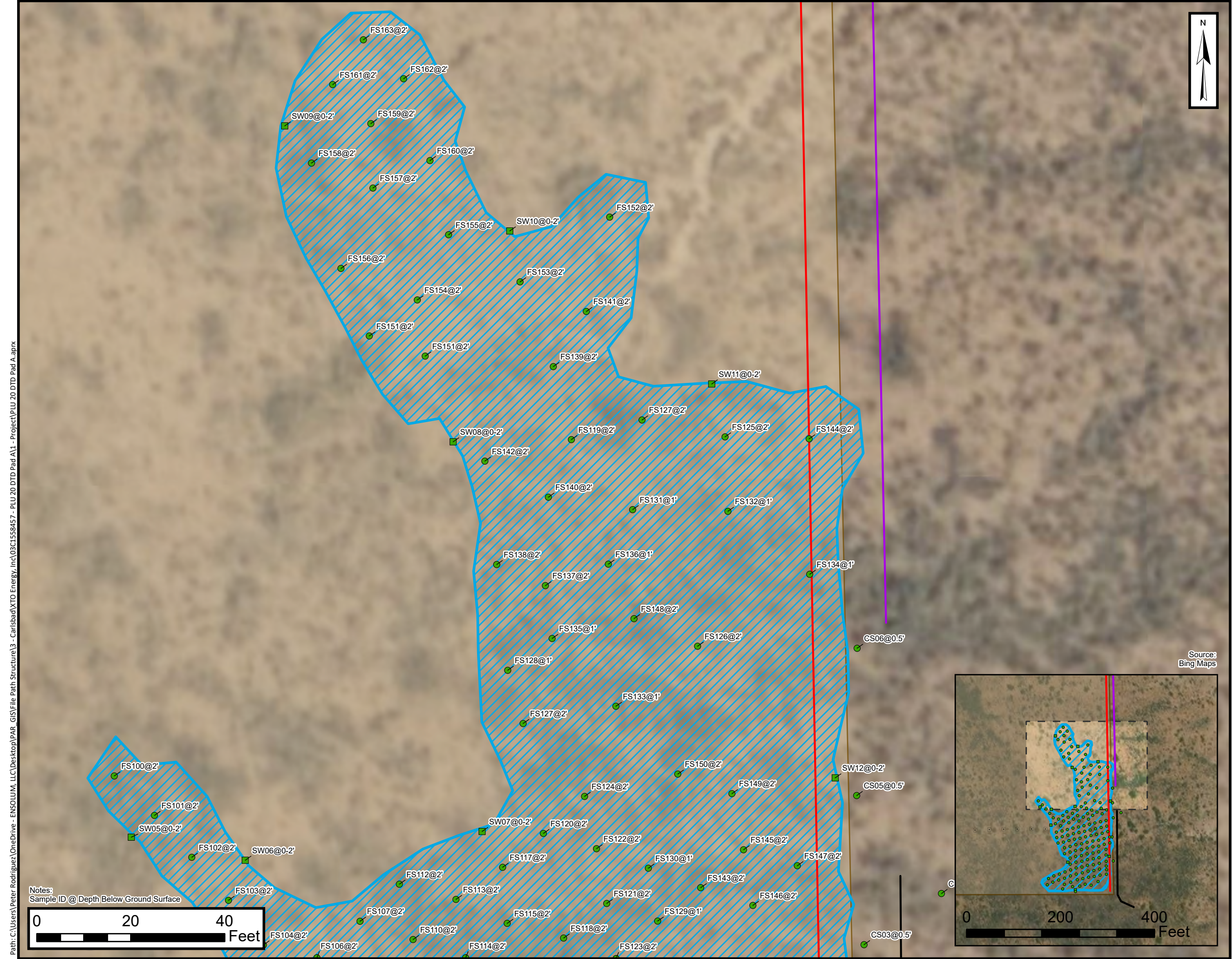
ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants



Delineation Soil Sample Locations

XTO Energy, Inc
PLU 20 DTD Pad A
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Unit C, S20, T 24S, R 30E
Eddy County, New Mexico

FIGURE
2



Legend

- Confirmation Soil Sample in Compliance with Site Closure Criteria
- Confirmation Sidewall Soil Sample in Compliance with Site Closure Criteria
- Well Head
- Cut Polyline
- Overhead Powerlines
- Polyline
- Approximate Pad Boundary
- Excavation Extent

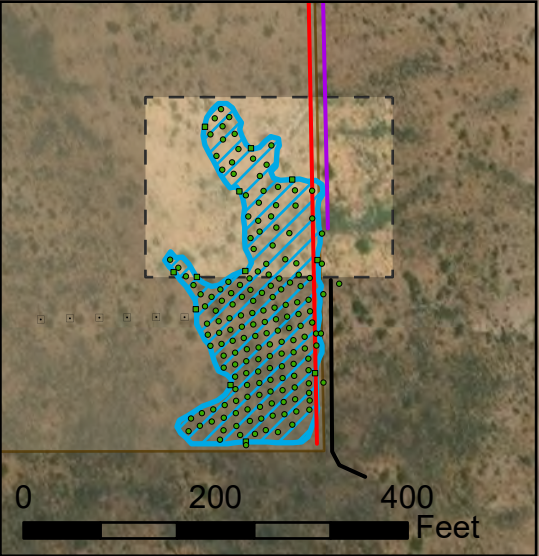


Excavation Soil Sample Locations

XTO Energy, Inc
 PLU 20 DTD Pad A
 Unit C, S20, T 24S, R 30E
 Eddy County, New Mexico

FIGURE 3A

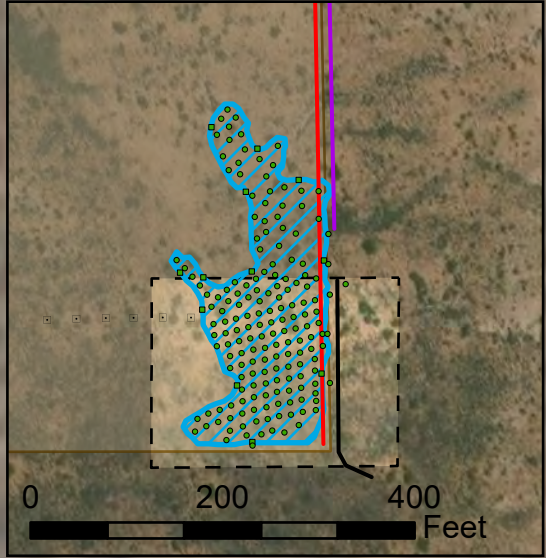
Incident Number: nAPP2418460531





- Legend**
- Confirmation Soil Sample in Compliance with Site Closure Criteria
 - Confirmation Sidewall Soil Sample in Compliance with Site Closure Criteria
 - Well Head
 - Cut Polyline
 - Overhead Powerlines
 - Polyline
 - Approximate Pad Boundary
 - Excavation Extent

Source:
Bing Maps



Excavation Soil Sample Locations

XTO Energy, Inc
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Unit C, S20, T 24S, R 30E
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FIGURE 3B

Incident Number: nAPP2418460531



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20 DTD Pad A
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	NE	100	600
Delineation Soil Samples										
PH01	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
PH01A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH02	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
PH02A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH03	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
PH03A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH04	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
PH04A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
PH04B	07/08/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
PH05	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
PH05A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
PH06	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,140
PH06A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
PH07	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH07A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH08	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH08A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH09	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	976
PH09A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH10	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	768
PH10A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
PH11	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH11A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
PH12	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
PH12A	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
Confirmation Soil Samples										
FS01	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS02	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS03	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS04	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS05	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS06	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS07	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0



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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	NE	100	600
FS08	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS09	07/10/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS10	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS11	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS12	07/10/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS14	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS15	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS16	07/10/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS17	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS18	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS19	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS20	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS21	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS22	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS23	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS24	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS25	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS26	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS27	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS28	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS29	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS30	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS31	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS32	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS33	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS34	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS35	07/10/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS36	07/10/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS37	07/10/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS38	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS39	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS40	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS41	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160



TABLE 1
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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	NE	100	600
FS42	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS43	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS44	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS45	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS46	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS47	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS48	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS49	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS50	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS51	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS52	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS53	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS54	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS55	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS56	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS57	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS58	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS59	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS60	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS61	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS62	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS63	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS64	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS65	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS66	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS67	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS68	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS69	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS70	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS71	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS72	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS73	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS74	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS75	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20 DTD Pad A
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	NE	100	600
FS76	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS77	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS78	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS79	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS80	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS81	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS82	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS83	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS84	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS85	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS86	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS87	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS88	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS89	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS90	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS91	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS92	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS93	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS94	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS95	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS96	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS97	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS98	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS99	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS100	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS101	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS102	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS103	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS104	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS105	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS106	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS107	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS108	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS109	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20 DTD Pad A
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	NE	100	600
FS110	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS111	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS112	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS113	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS114	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS115	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS116	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS117	07/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS118	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS119	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS120	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS121	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS122	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS123	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS124	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS125	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS126	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS127	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS128	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS129	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS130	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS131	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS132	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS133	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS134	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS135	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS136	07/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS137	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS138	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS139	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS140	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS141	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS142	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS143	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20 DTD Pad A
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	NE	100	600
FS144	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS145	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS146	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS147	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS148	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS149	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS150	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS151	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS152	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS153	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS154	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS155	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS156	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS157	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS158	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS159	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS160	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS161	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS162	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS163	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW01	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW02	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW03	07/10/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW04	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW05	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW06	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW07	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW08	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW09	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW10	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW11	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW12	07/10/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS01	07/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS02	07/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 20 DTD Pad A
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	NE	100	600
CS03	07/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS04	07/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS05	07/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS06	07/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS07	07/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

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

OSE 011 DEC 21 2022 PM 3:14

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04676 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04676		
	WELL OWNER NAME(S) XTO ENERGY INC				PHONE (OPTIONAL) 575-200-0729		
	WELL OWNER MAILING ADDRESS 3104 E GREENE ST				CITY CARLSBAD		
					STATE NM		
					ZIP 88220		
WELL LOCATION (FROM GPS)	DEGREES LATITUDE		MINUTES 32	SECONDS 12	32.66	N	
	LONGITUDE		-103	54	50.95	W	
* ACCURACY REQUIRED: ONE TENTH OF A SECOND							
* DATUM REQUIRED: WGS 84							
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE POKER LAKE UNIT # 231							
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 11/22/22	DRILLING ENDED 11/22/22	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)		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)
	FROM	TO					
				NO CASING IN HOLE			
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					
				N/A			

FOR OSE INTERNAL USE

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

FILE NO. C-04676	POD NO. 1	TRN NO. 736286
LOCATION 245.30E.19.1.2.2	WELL TAG ID NO.	PAGE 1 OF 2

1. HYDROGEOLOGIC LOG OF WELL

FOR OSE INTERNAL USE



APPENDIX B

Photographic Log

**Photographic Log**

XTO Energy, Inc
 PLU 20 DTD Pad A
 nAPP2418460531



Photograph: 1 Date: 7/2/2024
 Description: Soil staining in release footprint
 View: Northwest

Photograph: 2 Date: 7/8/2024
 Description: Delineation activities
 View: Southwest



Photograph: 3 Date: 7/9/2024
 Description: Excavation activities
 View: Northeast

Photograph: 4 Date: 7/10/2024
 Description: Excavation activities
 View: Southwest

**Photographic Log**

XTO Energy, Inc
 PLU 20 DTD Pad A
 nAPP2418460531



Photograph: 5 Date: 7/11/2024
 Description: Excavation activities
 View: South



Photograph: 6 Date: 7/11/2024
 Description: Excavation activities
 View: West



Photograph: 7 Date: 7/11/2024
 Description: Excavation activities
 View: Northwest



Photograph: 8 Date: 7/11/2024
 Description: Excavation activities
 View: South

**Photographic Log**

XTO Energy, Inc
 PLU 20 DTD Pad A
 nAPP2418460531



Photograph: 9 Date: 7/11/2024
 Description: Backfilling activities
 View: Southwest



Photograph: 10 Date: 7/11/2024
 Description: Backfilling activities
 View: Southwest



Photograph: 11 Date: 7/11/2024
 Description: Backfilling activities
 View: Southwest





Photograph: 12 Date: 7/11/2024
 Description: Backfilling activities
 View: East





APPENDIX C


Lithologic Soil Sampling Logs


		Sample Name: PH01		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.208312, -103.907503			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	453	0.0	N	PH01	0.5			
D	453	0.0	N		1	1		
D	<196	0.0	N	PH01A	2	2		
						Total Depth @ 2 feet bgs		


		Sample Name: PH02		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.208210, -103.907436			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	453	0.0	N	PH02	0.5			
D	453	0.0	N		1	1		
D	<196	0.0	N	PH02A	2	2		
						Total Depth @ 2 feet bgs		


								Sample Name: PH03		Date: 7/8/2024	
								Site Name: PLU 20 DTD Pad A			
								Incident Number: nAPP2418460531			
								Job Number: 03C1558457			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: OH		Method: Backhoe	
Coordinates: 32.208088, -103.907276								Hole Diameter: 2'		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 was included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining			
D	453	0.0	N	PH03	0.5						
D	565	0.0	N		1	1					
D	235	0.0	N	PH03A	2	2					
Total Depth @ 2 feet bgs											


		Sample Name: PH04		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.207919, -103.907185			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 3'			
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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	453	0.0	N	PH04	0.5			
D	694	0.0	N		1	1		
D	694	0.0	N	PH04A	1	1		
D	403	0.0	N	PH04B	3	3	SP	(2-3') SAND, reddish brown, fine grain, no odor
						Total Depth @ 3 feet bgs		


								Sample Name: PH05		Date: 7/8/2024					
								Site Name: PLU 20 DTD Pad A							
								Incident Number: nAPP2418460531							
								Job Number: 03C1558457							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: OH		Method: Backhoe					
Coordinates: 32.207824, -103.907502								Hole Diameter: 2'		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 was included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining							
D	767	0.0	N	PH05	0.5										
D	509	0.0	N		1	1									
D	509	0.0	N	PH05A	2	2									
Total Depth @ 2 feet bgs															


 ENSOLUM		Sample Name: PH06		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.207707, -103.907269			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,271	0.0	N	PH06	0.5	0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	453	0.0	N		1	1		
D	509	0.0	N	PH06A	2	2		
						Total Depth @ 2 feet bgs		


		Sample Name: PH07		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.207501, -103.907331			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	509	0.0	N	PH07	0.5	0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	1,702	0.0	N		1	1		
D	<196	0.0	N	PH07A	2	2		
						Total Depth @ 2 feet bgs		

		Sample Name: PH08		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.207482, -103.907568			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	<196	0.0	N	PH08	0.5			
D	196	0.0	N		1	1		
D	<196	0.0	N	PH08A	2	2		
						Total Depth @ 2 feet bgs		

		Sample Name: PH09		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.207690, -103.907451			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,125	0.0	N	PH09	0.5	0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	1,416	0.0	N		1	1		
D	<196	0.0	N	PH09A	2	2		
						Total Depth @ 2 feet bgs		

 ENSOLUM		Sample Name: PH10		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.207819, -103.907228			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	728	0.0	N	PH10	0.5			
D	386	0.0	N		1	1		
D	537	0.0	N	PH10A	2	2		
						Total Depth @ 2 feet bgs		

		Sample Name: PH11		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.208004, -103.907224			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	386	0.0	N	PH11	0.5			
D	431	0.0	N		1	1		
D	537	0.0	N	PH11A	2	2		
						Total Depth @ 2 feet bgs		

		Sample Name: PH12		Date: 7/8/2024				
		Site Name: PLU 20 DTD Pad A						
		Incident Number: nAPP2418460531						
		Job Number: 03C1558457						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.207949, -103.907102			Logged By: OH		Method: Backhoe			
			Hole Diameter: 2'		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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-2') CALICHE, white, fine grain, poorly graded no odor, no staining
D	431	0.0	N	PH12	0.5			
D	341	0.0	N		1	1		
D	263	0.0	N	PH12A	2	2		
						Total Depth @ 2 feet bgs		



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

July 15, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20 DTD PAD A

Enclosed are the results of analyses for samples received by the laboratory on 07/09/24 13:57.

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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 01 0.5' (H244066-01)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	432	16.0	07/10/2024	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	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 01A 2' (H244066-02)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEx	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	07/10/2024	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	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 02 0.5' (H244066-03)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	560	16.0	07/10/2024	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	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 02A 2' (H244066-04)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/10/2024	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	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 03 0.5' (H244066-05)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEx	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	528	16.0	07/10/2024	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	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 03A 2' (H244066-06)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	176	16.0	07/10/2024	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	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 04 0.5' (H244066-07)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	07/10/2024	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	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 04A 2' (H244066-08)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	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	240	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 04B 3' (H244066-09)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEx	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	240	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 05 0.5' (H244066-10)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	640	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 05A 2' (H244066-11)

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	07/10/2024	ND	1.89	94.6	2.00	1.21		
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662		
Total BTEx	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	480	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 06 0.5' (H244066-12)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEX	<0.300	0.300	07/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 06A 2' (H244066-13)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEX	<0.300	0.300	07/10/2024	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	544	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 07 0.5' (H244066-14)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEx	<0.300	0.300	07/10/2024	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	176	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 07A 2' (H244066-15)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	144	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 08 0.5' (H244066-16)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEx	<0.300	0.300	07/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 08A 2' (H244066-17)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEX	<0.300	0.300	07/10/2024	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	96.0	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 102 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 09 0.5' (H244066-18)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	976	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 108 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 09A 2' (H244066-19)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEX	<0.300	0.300	07/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 10 0.5' (H244066-20)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEX	<0.300	0.300	07/10/2024	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	768	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 107 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 10A 2' (H244066-21)

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	07/10/2024	ND	1.97	98.3	2.00	3.42		
Toluene*	<0.050	0.050	07/10/2024	ND	1.96	97.9	2.00	4.12		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.05	102	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.03	100	6.00	4.69		
Total BTEX	<0.300	0.300	07/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 11 0.5' (H244066-22)

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	07/10/2024	ND	1.97	98.3	2.00	10.7	QM-07
Toluene*	<0.050	0.050	07/10/2024	ND	1.99	99.3	2.00	14.1	QM-07
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.04	102	2.00	17.6	QM-07
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.01	100	6.00	17.6	QM-07
Total BTEX	<0.300	0.300	07/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/10/2024	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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 11A 2' (H244066-23)

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	07/10/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/10/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.01	100	6.00	17.6		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	384	16.0	07/10/2024	ND	432	108	400	3.77	QR-03	

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	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 12 0.5' (H244066-24)

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	07/10/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/10/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.01	100	6.00	17.6		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	256	16.0	07/10/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 07/09/2024
Reported: 07/15/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793,-103.90713

Sampling Date: 07/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PH 12A 2' (H244066-25)

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	07/10/2024	ND	1.97	98.3	2.00	10.7		
Toluene*	<0.050	0.050	07/10/2024	ND	1.99	99.3	2.00	14.1		
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.04	102	2.00	17.6		
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.01	100	6.00	17.6		
Total BTEX	<0.300	0.300	07/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	336	16.0	07/10/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	197	98.4	200	7.11	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	193	96.4	200	6.47	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 107 % 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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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Ensolum, LLC

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Aimee Cole ^{at} Ben Bell

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: (720) 384-7365

Project #: 03C1558457

Project Name: PLU20 DTI Pad A

Project Location: 32.20793, -103.90713

Sample Name: Over Handy

FOR LAB USE ONLY

Lab I.D.

Depth (feet)

H244064

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.		MATRIX						PRESERV		SAMPLING		ANALYSIS REQUEST					
			# CONTAINERS		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chlorides		
11	PH05A	2	9											7/8/24	12:40					
12	PH06	0.5												13:00	13:00					
13	PH06A	2												13:05	13:05					
14	PH07	0.5												13:26	13:26					
15	PH07A	2												13:30	13:30					
16	PH08	0.5												13:48	13:48					
17	PH08A	2												13:52	13:52					
18	PH09	0.5												14:10	14:10					
19	PH09A	2												14:15	14:15					
20	PH10	0.5												14:30	14:30					

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Relinquished By:

Date: 7/9/24

Time: 1:35

Received By:

Verbal Result: ☐ Yes ☒ No

Standard

Turnaround Time: Rush

Thermometer ID: #140

Corrected Temp. °C

Relinquished By: *[Signature]*

Date: 7/9/24

Time: 1:35

Received By: *[Signature]*

Verbal Result: ☐ Yes ☒ No

Standard

Turnaround Time: Rush

Thermometer ID: #140

Corrected Temp. °C

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Checked By: *[Signature]*

Initials

Turnaround Time: Rush

Thermometer ID: #140

Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Ben Bell

P.O. #:

Address: 3122 National Parks Hwy

Company: XTO

City: Carlsbad, NM State: NM Zip: 88220

Attn: Amy Ruth

Phone #: Fax #:

Address: 3104 E. Grant St.

Project #: 03C1558457 Project Owner: XTO

City: Carlsbad

Project Name: PLU 26 DTB Pad #1

State: NM Zip: 88220

Project Location: 32.2098, -103.96713

Phone #:

Sample Name: Omar Handy

Fax #:

FOR LAB USE ONLY

FOR LAB USE ONLY		Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERVATION	DATE	TIME	ANALYSIS REQUEST		
LAB I.D.	GROUNDWATER					WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL	OTHER :	
																	BTX
H241066		PH10A	2	G	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7/8/24	14:35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21		PH11	0.5	G	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14:40	15:20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
23		PH11A	2	G	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15:20	15:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
23		PH12	0.5	G	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15:30	15:35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
24		PH12A	2	G	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15:35		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
25																	

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Relinquished By:

Date: 7/24

Received By:

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

Relinquished By: [Signature]

Date: 7/24

Received By: [Signature]

All Results are emailed. Please provide Email address: bell@ensolum.com, trowissey@ensolum.com

Relinquished By:

Date:

Received By:

REMARKS:

Cost Center: 2255691001

Delivered By: (Circle One)

Observed Temp.: °C

Sample Condition Cool ☒ Intact ☐

CHECKED BY: (Initials)

Turnaround Time: Standard ☒ Rush ☐

Bacteria (only) Sample Condition Cool ☐ Intact ☐

Observed Temp.: °C

Corrected Temp.: °C

Sampler - UPS - Bus - Other:

Observed Temp.: °C

Sample Condition Cool ☐ Intact ☐

CHECKED BY: (Initials)

Turnaround Time: Standard ☐ Rush ☐

Bacteria (only) Sample Condition Cool ☐ Intact ☐

Observed Temp.: °C

Corrected Temp.: °C

FORM 000 R-3-2 10/07/21

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

July 12, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20 DTD PAD A

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 14:40.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 07/11/2024
 Reported: 07/12/2024
 Project Name: PLU 20 DTD PAD A
 Project Number: 03C1558457
 Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 01 2 (H244141-01)

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	07/11/2024	ND	1.97	98.6	2.00	7.68	
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91	
Total BTEX	<0.300	0.300	07/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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



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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 02 2 (H244141-02)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 03 2 (H244141-03)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 04 2 (H244141-04)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 05 2 (H244141-05)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEx	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 06 2 (H244141-06)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 07 2 (H244141-07)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 08 2 (H244141-08)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEx	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 10 2 (H244141-09)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/11/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 11 2 (H244141-10)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/12/2024	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	07/12/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 13 2 (H244141-11)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/12/2024	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	07/12/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 14 2 (H244141-12)

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	07/11/2024	ND	1.97	98.6	2.00	7.68		
Toluene*	<0.050	0.050	07/11/2024	ND	1.98	99.0	2.00	7.91		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.03	101	2.00	7.94		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.98	99.7	6.00	7.91		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/12/2024	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	07/12/2024	ND	195	97.6	200	2.81	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	94.1	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 15 2 (H244141-13)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 17 2 (H244141-14)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	288	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 18 2 (H244141-15)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	144	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 19 2 (H244141-16)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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Notes and Definitions

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: Ensolum, LLC

Project Manager: Ben Belli

Address: 3122 National Parks Hwy

City: Midland, NM State: NM Zip: 88220

Phone #: 337 257 8307 Fax #:

Project #: 034558457 Project Owner: XTO

Project Name: 32.20793, -103.90713

Project Location: 32.20793, -103.90713

Sampler Name: Ower Handy

FOR LAB USE ONLY

Lab I.D. Sample I.D. Depth (feet)

H244141

1 FS01 2

2 FS02 2

3 FS03 2

4 FS04 2

5 FS05 2

6 FS06 2

7 FS07 2

8 FS08 2

9 FS10 2

10 FS11 2

Relinquished By: [Signature]

Received By: [Signature]

Date: 7-11-24

Time: 1440

Delivered By: (Circle One) Observed Temp. °C 3.3

Sampler - UPS - Bus - Other: Corrected Temp. °C

BILL TO

P.O. #: Company: VTO Energy Inc.

Attn: Amy Rubin

Address: 3104 E. Garfield St

City: Carlsbad

State: NM Zip: 88220

Phone #: Fax #:

Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:

ACID/BASE: ICE / COOL OTHER:

DATE: 7/9/24

TIME: 1058

1100

1112

1115

1138

1140

1143

1145

1550

1553

Verbal Result: Yes No

Add'l Phone #:

REMARKS: Incident - NHP 24184 60531

Cost Center: 2255 691001

Turnaround Time: Standard Rush

Thermometer ID: 444 #140

Correction Factor: 0.00

ANALYSIS REQUEST

Chloride

TPH

BTEX



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

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

Company Name: Ensolum, LLC

Project Manager: Ben Belli

Address: 3122 National Parks Hwy

City: Midland, CA

Phone #: 337 257 8307

Project #: 030558457

Project Name: 236 RV 20 STD Pad A

Project Location: 32.207925, -103.90713

Sampler Name: Omar Hamdy

P.O. #:

Company: VTO Energy Inc.

Attn: Amy Ruhn

Address: 3104 E Santa St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Project Manager: <u>Don De...</u>										P.O. #																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Address: <u>3122 National Parks Hwy</u>										Company: <u>VTO Energy Inc.</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
City: <u>Midland Carroll</u>										Attn: <u>Angie Ruhn</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Phone #: <u>337 257 8307</u>										Address: <u>3104 E Garret St</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Fax #: <u></u>										City: <u>Carroll</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Project #: <u>036558457</u>										State: <u>NM</u> Zip: <u>88220</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Project Name: <u>336 RU 20 DTD Pad A</u>										Phone #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Project Location: <u>32.207923 -103.90713</u>										Fax #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Sampler Name: <u>Owner Handy</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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Relinquished By:

Date: 9-11-24

Received By:

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Relinquished By:

Date: 9-11-24

Received By:

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 9-11-24

Received By:

REMARKS: Incident - NHP 24184 60531

Delivered By: (Circle One)

Observed Temp.: 33

Sample Condition: ☒ Intact ☐ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: 24 hr

Standard ☐ Rush ☒

Bacteria (only) ☐ Cool ☐ Intact ☐ Yes ☐ No

Sample Condition: ☐ Observed Temp.: 33

Sampler - UPS - Bus - Other:

Corrected Temp.: 33

Sample Condition: ☒ Intact ☐ Yes ☐ No

CHECKED BY: (Initials)

Thermometer ID: 4113

Correction Factor: 0.5C

Bacteria (only) ☐ Cool ☐ Intact ☐ Yes ☐ No

Sample Condition: ☐ Observed Temp.: 33

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabsnm.com



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

July 12, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20 DTD PAD A

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 14:40.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 09 3' (H244142-01)

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	07/11/2024	ND	1.96	98.1	2.00	0.243	
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39	
Total BTEX	<0.300	0.300	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	144	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 12 3' (H244142-02)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTX	<0.300	0.300	07/11/2024	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	32.0	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 16 3' (H244142-03)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEx	<0.300	0.300	07/11/2024	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	64.0	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-2' (H244142-04)

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	07/11/2024	ND	1.96	98.1	2.00	0.243	
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39	
Total BTEX	<0.300	0.300	07/11/2024	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	176	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 02 0-2' (H244142-05)

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	07/11/2024	ND	1.96	98.1	2.00	0.243	
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39	
Total BTEX	<0.300	0.300	07/11/2024	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	144	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 03 0-3' (H244142-06)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 04 0-2' (H244142-07)

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	07/11/2024	ND	1.96	98.1	2.00	0.243	
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39	
Total BTEx	<0.300	0.300	07/11/2024	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	176	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 05 0-2' (H244142-08)

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	07/11/2024	ND	1.96	98.1	2.00	0.243	
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39	
Total BTEx	<0.300	0.300	07/11/2024	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	144	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 06 0-2' (H244142-09)

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	07/11/2024	ND	1.96	98.1	2.00	0.243	
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39	
Total BTEX	<0.300	0.300	07/11/2024	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	128	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 07 0-2' (H244142-10)

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	07/11/2024	ND	1.96	98.1	2.00	0.243	
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39	
Total BTEX	<0.300	0.300	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 20 2' (H244142-11)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEX	<0.300	0.300	07/11/2024	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	64.0	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 21 2' (H244142-12)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEX	<0.300	0.300	07/11/2024	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	96.0	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 22 2' (H244142-13)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEX	<0.300	0.300	07/11/2024	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	80.0	16.0	07/12/2024	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	07/11/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 23 2' (H244142-14)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEx	<0.300	0.300	07/11/2024	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	176	16.0	07/12/2024	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	07/12/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 24 2' (H244142-15)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	128	16.0	07/12/2024	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	07/12/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 25 2' (H244142-16)

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	07/11/2024	ND	1.96	98.1	2.00	0.243		
Toluene*	<0.050	0.050	07/11/2024	ND	2.24	112	2.00	3.36		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.35	118	2.00	5.30		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.23	120	6.00	4.39		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	07/12/2024	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	07/12/2024	ND	195	97.7	200	2.95	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	191	95.7	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 26 2' (H244142-17)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 27 2' (H244142-18)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 28 2' (H244142-19)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 29 2' (H244142-20)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 30 2' (H244142-21)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 31 2' (H244142-22)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	144	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 32 2' (H244142-23)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 33 2' (H244142-24)

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	07/11/2024	ND	1.85	92.4	2.00	0.991	
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69	
Total BTX	<0.300	0.300	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 34 2' (H244142-25)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	144	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 35 3' (H244142-26)

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	07/11/2024	ND	1.85	92.4	2.00	0.991	
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69	
Total BTEX	<0.300	0.300	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 36 3' (H244142-27)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 37 3' (H244142-28)

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	07/11/2024	ND	1.85	92.4	2.00	0.991	
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69	
Total BTX	<0.300	0.300	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 38 2' (H244142-29)

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	07/11/2024	ND	1.85	92.4	2.00	0.991	
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69	
Total BTEX	<0.300	0.300	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 39 2' (H244142-30)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	144	16.0	07/12/2024	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	07/11/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 40 2' (H244142-31)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/12/2024	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	07/12/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 41 2' (H244142-32)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	160	16.0	07/12/2024	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	07/12/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 42 2' (H244142-33)

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	07/11/2024	ND	1.85	92.4	2.00	0.991	
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69	
Total BTX	<0.300	0.300	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/12/2024	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	07/12/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 43 2' (H244142-34)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	160	16.0	07/12/2024	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	07/12/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 44 2' (H244142-35)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/12/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 45 2' (H244142-36)

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	07/11/2024	ND	1.85	92.4	2.00	0.991		
Toluene*	<0.050	0.050	07/11/2024	ND	1.90	95.2	2.00	2.02		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.06	103	2.00	2.66		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.07	101	6.00	2.69		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/12/2024	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	07/12/2024	ND	210	105	200	0.825	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	208	104	200	0.497	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 46 2' (H244142-37)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	176	16.0	07/12/2024	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	07/11/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 47 2' (H244142-38)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEx	<0.300	0.300	07/11/2024	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	48.0	16.0	07/12/2024	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	07/11/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 48 2' (H244142-39)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	128	16.0	07/12/2024	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	07/11/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 49 2' (H244142-40)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	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	160	16.0	07/12/2024	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	07/11/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 50 2' (H244142-41)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	192	16.0	07/12/2024	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	07/11/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 51 2' (H244142-42)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	144	16.0	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 52 2' (H244142-43)

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	07/11/2024	ND	2.07	103	2.00	2.00	
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71	
Total BTEX	<0.300	0.300	07/11/2024	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	240	16.0	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 53 2' (H244142-44)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	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	112	16.0	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 54 2' (H244142-45)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	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	80.0	16.0	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 55 2' (H244142-46)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 56 2' (H244142-47)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	128	16.0	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 57 2' (H244142-48)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	144	16.0	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 58 2' (H244142-49)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	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	160	16.0	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 59 2' (H244142-50)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 60 2' (H244142-51)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 61 2' (H244142-52)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 62 2' (H244142-53)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 63 2' (H244142-54)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 64 2' (H244142-55)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 65 2' (H244142-56)

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	07/11/2024	ND	2.07	103	2.00	2.00		
Toluene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.22	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.75	112	6.00	2.71		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	07/12/2024	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	07/12/2024	ND	215	107	200	0.224	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	206	103	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 114 % 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 66 2' (H244142-57)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	07/12/2024	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	07/11/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 67 2' (H244142-58)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	288	16.0	07/12/2024	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	07/11/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 68 2' (H244142-59)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	176	16.0	07/12/2024	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	07/11/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 69 2' (H244142-60)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/11/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 70 2' (H244142-61)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	208	16.0	07/12/2024	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	07/11/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 71 2' (H244142-62)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/12/2024	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	07/11/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 72 2' (H244142-63)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/12/2024	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	07/11/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 73 2' (H244142-64)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/12/2024	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	07/11/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 74 2' (H244142-65)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 75 2' (H244142-66)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 76 2' (H244142-67)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	176	16.0	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 77 2' (H244142-68)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 78 2' (H244142-69)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/11/2024	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	128	16.0	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
 Reported: 07/12/2024
 Project Name: PLU 20 DTD PAD A
 Project Number: 03C1558457
 Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 79 2' (H244142-70)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 80 2' (H244142-71)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/11/2024	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	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 81 2' (H244142-72)

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	07/11/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/11/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 82 2' (H244142-73)

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	07/12/2024	ND	1.88	93.8	2.00	3.29	
Toluene*	<0.050	0.050	07/12/2024	ND	1.89	94.6	2.00	0.710	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.92	96.2	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.68	94.7	6.00	1.02	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 83 2' (H244142-74)

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	07/12/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/12/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 84 2' (H244142-75)

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	07/12/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/12/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.68	94.7	6.00	1.02		
Total BTEX	<0.300	0.300	07/12/2024	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	80.0	16.0	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 85 2' (H244142-76)

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	07/12/2024	ND	1.88	93.8	2.00	3.29		
Toluene*	<0.050	0.050	07/12/2024	ND	1.89	94.6	2.00	0.710		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.92	96.2	2.00	1.79		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.68	94.7	6.00	1.02		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	144	16.0	07/12/2024	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	07/12/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	188	93.9	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 86 2' (H244142-77)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEx	<0.300	0.300	07/12/2024	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	112	16.0	07/12/2024	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	07/11/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 87 2' (H244142-78)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	128	16.0	07/12/2024	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	07/11/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 88 2' (H244142-79)

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	07/12/2024	ND	1.83	91.6	2.00	0.544	
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/12/2024	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	07/11/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 89 2' (H244142-80)

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	07/12/2024	ND	1.83	91.6	2.00	0.544	
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21	
Total BTX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

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



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

Notes and Definitions

- 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

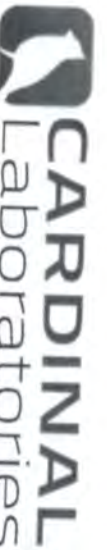
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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST																			
Project Manager: Ben Belli		P.O. #:																					
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.																					
City: Carlsbad		Attn: Amy Ruth																					
Phone #: 337 257-8307		Address: 3104 E. Green St.																					
Fax #:		City: Carlsbad																					
Project #: 03C1558457		State: NM Zip: 88220																					
Project Name: PLU 20 DTD Pad A		Phone #:																					
Project Location:		Fax #:																					
Sampler Name: Omar Handy																							
<small>FOR LAB USE ONLY</small>																							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV	SAMPLING														
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	CHLORIDE					
11	FS 20	2	✓		✓									7/10/14	8:55	✓	✓	✓					
12	FS 21	2	✓		✓										8:57	✓	✓	✓					
13	FS 22	2	✓		✓										8:59	✓	✓	✓					
14	FS 23	2	✓		✓										9:02	✓	✓	✓					
15	FS 24	2	✓		✓										9:05	✓	✓	✓					
16	FS 25	2	✓		✓										9:07	✓	✓	✓					
17	FS 26	2	✓		✓										9:09	✓	✓	✓					
18	FS 27	2	✓		✓										9:11	✓	✓	✓					
19	FS 28	2	✓		✓										9:14	✓	✓	✓					
20	FS 29	2	✓		✓										9:17	✓	✓	✓					
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising hereunder is limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																							
Relinquished By:		Date: 7-11-24	Received By:																				
Relinquished By: <i>OWAC</i>		Time: 4:40	Received By: <i>Muhammad Abdullah</i>																				
Date:		Time:	Received By:																				
Delivered By: (Circle One)		Observed Temp. °C 3.3	Sample Condition	CHECKED BY: (Initials)																			
Sampler - UPS - Bus - Other:		Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>																			
			Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID # 115 hvs <input type="checkbox"/> Correction Factor 0.0°C <input type="checkbox"/> Yes <input type="checkbox"/> No																			
			Observed Temp. °C	Corrected Temp. °C																			
REMARKS: nAPP2418460531																							
Cost Center: 2255691001																							
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:																							
All Results are emailed. Please provide Email address: bbelli@ensolum.com, TMorrissey@ensolum.com																							



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:

Ensolum, LLC

Project Manager: Ben Bell

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 337 257-8307

State: NM Zip: 88220

Project #: 03C1558457

Fax #:

Project Name: PLU 20 DTD Pad A

Project Location:

Sample Name: Omar Hamdy

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: XTO Energy Inc.

Attn: Amy Ruth

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			BTEX	TPH	CHLORIDE
H24442	21 ES 30	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:20	✓	✓	✓
	22 ES 31	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:22	✓	✓	✓
	23 ES 32	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:25	✓	✓	✓
	24 ES 33	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:28	✓	✓	✓
	25 ES 34	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:30	✓	✓	✓
	26 ES 35	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:33	✓	✓	✓
	27 ES 36	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:35	✓	✓	✓
	28 ES 37	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:37	✓	✓	✓
	29 ES 38	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:39	✓	✓	✓
	30 ES 39	2	✓	✓	✓	✓	✓	✓	✓	✓	9/20	9:42	✓	✓	✓

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Relinquished By:

Date: 9-11-24 Received By:

Time: 1440

Date: 9-11-24 Received By:

Time: 1440

Relinquished By:

Date: 9-11-24 Received By:

Time: 1440

Date: 9-11-24 Received By:

Time: 1440

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp.: 3.3

Corrected Temp.: 3.3

Sample Condition

Cool Intact

Yes

No

Checked By: (Initials)

Turnaround Time: Standard

Rush

Bacteria (only)

Cool Intact

Yes

No

Thermometer ID #115

Correction Factor: 0.00

24 hrs

Sample Condition

Cool Intact

Yes

No



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 86 of 90



Page 87 of 90



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Ben Beill
Address: 3122 National Parks Hwy
City: Carlsbad
Phone #: 337 257-8307
State: NM Zip: 88220
Project #: 03C1558457
Project Owner: XTO
Project Name: PLU 20 DTD Pad A
Project Location:

BILL TO

ANALYSIS REQUEST

P.O. #: _____
Company: XTO Energy Inc.
Attn: Amy Ruth
Address: 3104 E. Green St.
City: Carlsbad
State: NM Zip: 88220
Phone #: _____
Fax #: _____
Sample Name: Omar Hamdy

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			BTEX	TPH	CHLORIDE
44442	ES 60	2									3/9/24	10:42			
	ES 61	2										10:45			
	ES 62	2										11:25			
	ES 63	2										11:28			
	ES 64	2										11:30			
	ES 65	2										11:33			
	ES 66	2										11:36			
	ES 67	2										11:40			
	ES 68	2										11:42			
	ES 69	2										11:45			

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Relinquished By: _____

Date: 7-11-24
Time: 1440
Received By: _____

Verbal Result: ☐ Yes ☒ No Add'l Phone #: _____

All Results are emailed. Please provide Email address: bbeill@ensolum.com, TMorrissey@ensolum.com

REMARKS: nAPP2418460531

Cost Center: 2255691001

Turnaround Time: Standard ☐ Rush ☒ Bacteria (only) Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Corrected Temp. °C

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C 33
Corrected Temp. °C

Sample Condition
Cool ☒ Intact ☐ Yes ☐ No

CHECKED BY: (Initials)

Thermometer ID: #40
Correction Factor: 0.5°C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

Company Name: Ensolum, LLC							
Project Manager: Ben Bellil							
Address: 3122 National Parks Hwy							
City: Carlsbad		State: NM		zip: 88220			
Phone #: 337 257-8307		Fax #:		Attn: Amy Ruth			
Project #: 03C1558457		Project Owner: XTO		Address: 3104 E. Green St.			
Project Name: PLU 20 DTD Pad A		State: NM		Zip: 88220			
Project Location:		Phone #:		Fax #:			
Sampler Name: Omar Hamdy							
FOR LAB USE ONLY							
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.	
H244442		71 ES 80		2		✓	
72 ES 81		2		✓		DATE TIME	
73 ES 82		2		✓		BTEX TPH CHLORIDE	
74 ES 83		2		✓			
75 ES 84		2		✓			
76 ES 85		2		✓			
77 ES 86		2		✓			
78 ES 87		2		✓			
79 ES 88		2		✓			
80 ES 89		2		✓			
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Relinquished By:		Date: 7-11-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Omar		Time: 1440		Signature		All Results are emailed. Please provide Email address: dbellil@ensolum.com; TMorrissey@ensolum.com	
Reinquinshed By:		Date:		Received By:		REMARKS: NAPP2418460531	
Time:							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp.: °C Corrected Temp.: °C		Sample Condition <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) A.E.	
Cost Center: 2255691001		Turnaround Time: Standard Rush 24hrs		<input checked="" type="checkbox"/> Bacteria (only) Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	
FORM UDO-R-3.2 10/07/21							



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

July 12, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20 DTD PAD A

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 14:40.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 07/11/2024
 Reported: 07/12/2024
 Project Name: PLU 20 DTD PAD A
 Project Number: 03C1558457
 Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 90 2 (H244143-01)

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	07/12/2024	ND	1.83	91.6	2.00	0.544	
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 91 2 (H244143-02)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	128	16.0	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
 Reported: 07/12/2024
 Project Name: PLU 20 DTD PAD A
 Project Number: 03C1558457
 Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 92 2 (H244143-03)

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	07/12/2024	ND	1.83	91.6	2.00	0.544	
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	128	16.0	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 93 2 (H244143-04)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	144	16.0	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 94 2 (H244143-05)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 07/11/2024
 Reported: 07/12/2024
 Project Name: PLU 20 DTD PAD A
 Project Number: 03C1558457
 Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 95 2 (H244143-06)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	144	16.0	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 96 2 (H244143-07)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	144	16.0	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 97 2 (H244143-08)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 98 2 (H244143-09)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	128	16.0	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 99 2 (H244143-10)

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	07/12/2024	ND	1.83	91.6	2.00	0.544	
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 100 2 (H244143-11)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 101 2 (H244143-12)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 102 2 (H244143-13)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 103 2 (H244143-14)

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	07/12/2024	ND	1.83	91.6	2.00	0.544	
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 104 2 (H244143-15)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEx	<0.300	0.300	07/12/2024	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	112	16.0	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 105 2 (H244143-16)

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	07/12/2024	ND	1.83	91.6	2.00	0.544		
Toluene*	<0.050	0.050	07/12/2024	ND	1.88	94.1	2.00	0.947		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.95	97.4	2.00	2.23		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.72	95.4	6.00	2.21		
Total BTEX	<0.300	0.300	07/12/2024	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	128	16.0	07/12/2024	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	07/12/2024	ND	197	98.3	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	204	102	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 106 2 (H244143-17)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEx	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 107 2 (H244143-18)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 108 2 (H244143-19)

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	07/12/2024	ND	2.01	100	2.00	2.16	
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13	
Total BTEX	<0.300	0.300	07/12/2024	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	416	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 109 2 (H244143-20)

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	07/12/2024	ND	2.01	100	2.00	2.16	
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 110 2 (H244143-21)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 111 2 (H244143-22)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 112 2 (H244143-23)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 113 2 (H244143-24)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 114 2 (H244143-25)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEx	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 115 2 (H244143-26)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 116 2 (H244143-27)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 117 2 (H244143-28)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 128 1 (H244143-29)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEx	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 129 1 (H244143-30)

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	07/12/2024	ND	2.01	100	2.00	2.16	
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 130 1 (H244143-31)

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	07/12/2024	ND	2.01	100	2.00	2.16	
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 131 1 (H244143-32)

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	07/12/2024	ND	2.01	100	2.00	2.16	
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 132 1 (H244143-33)

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	07/12/2024	ND	2.01	100	2.00	2.16	
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 133 1 (H244143-34)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 134 1 (H244143-35)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 135 1 (H244143-36)

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	07/12/2024	ND	2.01	100	2.00	2.16		
Toluene*	<0.050	0.050	07/12/2024	ND	2.22	111	2.00	2.99		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.32	116	2.00	3.54		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.20	120	6.00	2.13		
Total BTEx	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	07/12/2024	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	07/12/2024	ND	211	105	200	4.74	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	201	101	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 136 1 (H244143-37)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 08 0-2 (H244143-38)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	128	16.0	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 09 0-2 (H244143-39)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	160	16.0	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 10 0-2 (H244143-40)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	128	16.0	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 11 0-2 (H244143-41)

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	07/12/2024	ND	1.87	93.6	2.00	1.23	
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78	
Total BTEx	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	176	16.0	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 12 0-2 (H244143-42)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	192	16.0	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For 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 "Mike Snyder".

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST																									
Project Manager: Ben Beill		P.O. #:		Company: XTO Energy Inc.																									
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.		Attn: Amy Ruth																									
City: Carlsbad		State: NM		Zip: 88220		Address: 3104 E. Green St.																							
Phone #: 337 257-8307		Fax #:		City: Carlsbad		State: NM Zip: 88220																							
Project #: 03C1558457		Project Owner: XTO		State: NM		Zip: 88220																							
Project Name: PLU 20 DTD Pad A		Phone #:		Fax #:																									
Project Location:		Sample Name: Omar Hamdy		FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		DATE		TIME		BTEX		TPH		CHLORIDE					
H244143		ES 90		2		✓		✓		✓		✓		✓		7/10/24		12:17		✓		✓		✓					
1		ES 91		2		✓		✓		✓		✓		✓		7/10/24		12:18		✓		✓		✓					
2		ES 92		2		✓		✓		✓		✓		✓		7/10/24		12:19		✓		✓		✓					
3		ES 93		2		✓		✓		✓		✓		✓		7/10/24		12:20		✓		✓		✓					
4		ES 94		2		✓		✓		✓		✓		✓		7/10/24		12:21		✓		✓		✓					
5		ES 95		2		✓		✓		✓		✓		✓		7/10/24		12:22		✓		✓		✓					
6		ES 96		2		✓		✓		✓		✓		✓		7/10/24		12:23		✓		✓		✓					
7		ES 97		2		✓		✓		✓		✓		✓		7/10/24		12:24		✓		✓		✓					
8		ES 98		2		✓		✓		✓		✓		✓		7/10/24		12:25		✓		✓		✓					
9		ES 99		2		✓		✓		✓		✓		✓		7/10/24		12:26		✓		✓		✓					
10		ES 99		2		✓		✓		✓		✓		✓		7/10/24		12:26		✓		✓		✓					
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Relinquished By: <i>Omoy</i>		Date: 7-11-24		Received By: <i>[Signature]</i>		Date: 7-11-24		Time: 1440		Observed Temp. °C: 3.3		Corrected Temp. °C: 3.3		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>		Turnaround Time: 1440		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C: 24.15		Corrected Temp. °C: 24.15			
Delivered By: (Circle One)		Observed Temp. °C: 3.3		Corrected Temp. °C: 3.3		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>		Turnaround Time: 1440		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C: 24.15		Corrected Temp. °C: 24.15											
Sampler - UPS - Bus - Other:		Observed Temp. °C: 3.3		Corrected Temp. °C: 3.3		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>		Turnaround Time: 1440		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C: 24.15		Corrected Temp. °C: 24.15											
FORM-006 R 3.2 10/07/21		Observed Temp. °C: 3.3		Corrected Temp. °C: 3.3		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>		Turnaround Time: 1440		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C: 24.15		Corrected Temp. °C: 24.15											
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com		Observed Temp. °C: 3.3		Corrected Temp. °C: 3.3		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>		Turnaround Time: 1440		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C: 24.15		Corrected Temp. °C: 24.15											



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO				ANALYSIS REQUEST												
Project Manager: Ben Bell		Company: XTO Energy Inc.																		
Address: 3122 National Parks Hwy		Attn: Amy Ruth																		
City: Carlsbad		Address: 3104 E. Green St.																		
Phone #: 337 257-8307		City: Carlsbad																		
Fax #: 337 257-8307		State: NM Zip: 88220																		
Project #: 03C1558457		Project Owner: XTO																		
Project Name: PLU 20 DTD Pad A		State: NM Zip: 88220																		
Project Location:		Phone #:																		
Sample Name: Omar Handy		Fax #:																		
FOR LAB USE ONLY		PRESERV		SAMPLING																
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	CHLORIDE					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE											
HE44143	FS 160	2	✓	✓	✓	✓	✓	✓	✓	✓	7/10/24	15:04	✓	✓	✓					
12	FS 101	2	✓	✓	✓	✓	✓	✓	✓	✓	15:12	15:09	✓	✓	✓					
13	FS 102	2	✓	✓	✓	✓	✓	✓	✓	✓	15:15	15:12	✓	✓	✓					
14	FS 103	2	✓	✓	✓	✓	✓	✓	✓	✓	15:18	15:15	✓	✓	✓					
15	FS 104	2	✓	✓	✓	✓	✓	✓	✓	✓	15:21	15:21	✓	✓	✓					
16	FS 105	2	✓	✓	✓	✓	✓	✓	✓	✓	15:24	15:24	✓	✓	✓					
17	FS 106	2	✓	✓	✓	✓	✓	✓	✓	✓	15:26	15:26	✓	✓	✓					
18	FS 107	2	✓	✓	✓	✓	✓	✓	✓	✓	15:28	15:28	✓	✓	✓					
19	FS 108	2	✓	✓	✓	✓	✓	✓	✓	✓	15:30	15:30	✓	✓	✓					
20	FS 109	2	✓	✓	✓	✓	✓	✓	✓	✓										
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Relinquished By: Cmo		Date: 7-11-24		Received By: [Signature]		Date: 7-11-24		Time: 1440		Received By: [Signature]		Date: 7-11-24		Time: 1440		Remarks: NAPP2418460531				
Relinquished By:		Date:		Received By:		Date:		Time:		Received By:		Date:		Time:		Remarks:				
Delivered By: (Circle One)		Observed Temp.: °C		Sample Condition		CHECKED BY: (Initials)		Tumaround Time:		Standard		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C				
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Yes		#140		Rush		Cool Intact		Yes		Corrected Temp. °C				
FORM 0001R 3.2 10/07/21		33		Yes		[Signature]		24 hrs		[Signature]		Yes		Yes		24 hrs				

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Page 47 of 49



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST					
Project Manager: Ben Bellill				P.O. #:				Company: XTO Energy Inc.					
Address: 3122 National Parks Hwy				Attn: Amy Ruth				Address: 3104 E. Green St.					
City: Carlsbad				State: NM				City: Carlsbad					
Phone #: 337 257-8307				Fax #:				State: NM					
Project #: 03C1558457				Project Owner: XTO				Zip: 88220					
Project Name: PLU 20 DTD Pad A				Phone #:				State: NM					
Project Location:				Fax #:				Zip: 88220					
Sampler Name: Omar Hamdy				FOR LAB USE ONLY				SAMPLING					
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.	
										<input type="checkbox"/> GROUNDWATER			
										<input type="checkbox"/> WASTEWATER			
										<input type="checkbox"/> SOIL			
										<input type="checkbox"/> OIL			
										<input type="checkbox"/> SLUDGE			
										<input type="checkbox"/> OTHER :			
										<input checked="" type="checkbox"/> ACID/BASE:			
										<input checked="" type="checkbox"/> ICE / COOL			
										<input type="checkbox"/> OTHER :			
										DATE		TIME	
										<input type="checkbox"/> BTEX		<input type="checkbox"/> TPH	
										<input type="checkbox"/> CHLORIDE		<input type="checkbox"/>	

Relinquished By: *[Signature]*
Date: 7-11-24

Received By: *[Signature]*
Date: 7/10/24

Relinquished By: *[Signature]*
Date: 7/10/24

Received By: *[Signature]*
Date: 7/10/24

Remarks: NAPP2418460531

Cost Center: 2255691001

Turnaround Time: #140

Thermometer ID: #113

Correction Factor: 0.0C

Standard: ☒ Standard ☐ Rush

Bacteria (only): ☐ Bacteria ☐ Cool ☐ Intact ☐ Yes ☐ No

Sample Condition: ☐ Sample Condition ☐ Observed Temp. °C ☐ Corrected Temp. °C



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

July 12, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20 DTD PAD A

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:25.

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, appearing to read "Mike Snyder".

Mike Snyder For 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 118 2' (H244160-01)

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	07/12/2024	ND	1.87	93.6	2.00	1.23	
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78	
Total BTX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	256	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 119 2' (H244160-02)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	320	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

Cardinal Laboratories

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 120 2' (H244160-03)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	176	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 121 2' (H244160-04)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	304	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 122 2' (H244160-05)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	304	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 123 2' (H244160-06)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	304	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 124 2' (H244160-07)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	128	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 125 2' (H244160-08)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	160	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 126 2' (H244160-09)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	160	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 127 2' (H244160-10)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	144	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 137 2' (H244160-11)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	144	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 138 2' (H244160-12)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	144	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 139 2' (H244160-13)

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	07/12/2024	ND	1.87	93.6	2.00	1.23		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.5	2.00	1.90		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.09	104	2.00	2.50		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	6.16	103	6.00	2.78		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	96.0	16.0	07/12/2024	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	07/11/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 140 2' (H244160-14)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/12/2024	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	07/12/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 141 2' (H244160-15)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/12/2024	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	07/12/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 142 2' (H244160-16)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/12/2024	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	07/12/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 143 2' (H244160-17)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/12/2024	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	07/12/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 144 2' (H244160-18)

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	07/12/2024	ND	2.10	105	2.00	0.0272	
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/12/2024	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	07/12/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 145 2' (H244160-19)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	07/12/2024	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	07/12/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 146 2' (H244160-20)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/12/2024	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	07/12/2024	ND	199	99.5	200	2.36	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	173	86.7	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 147 2' (H244160-21)

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	07/12/2024	ND	2.10	105	2.00	0.0272	
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 148 2' (H244160-22)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 149 2' (H244160-23)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 150 2' (H244160-24)

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	07/12/2024	ND	2.10	105	2.00	0.0272	
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 151 2' (H244160-25)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	208	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 152 2' (H244160-26)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 153 2' (H244160-27)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 154 2' (H244160-28)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 155 2' (H244160-29)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	208	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 156 2' (H244160-30)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 157 2' (H244160-31)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 158 2' (H244160-32)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 159 2' (H244160-33)

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	07/12/2024	ND	2.10	105	2.00	0.0272		
Toluene*	<0.050	0.050	07/12/2024	ND	2.21	110	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.39	120	2.00	4.46		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.30	122	6.00	5.21		
Total BTEX	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 160 2' (H244160-34)

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	07/12/2024	ND	2.01	100	2.00	4.02		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78		
Total BTEX	<0.300	0.300	07/12/2024	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	304	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 161 2' (H244160-35)

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	07/12/2024	ND	2.01	100	2.00	4.02		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	256	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 162 2' (H244160-36)

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	07/12/2024	ND	2.01	100	2.00	4.02		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78		
Total BTEX	<0.300	0.300	07/12/2024	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	272	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 163 2' (H244160-37)

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	07/12/2024	ND	2.01	100	2.00	4.02		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78		
Total BTEX	<0.300	0.300	07/12/2024	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	288	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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



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

Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 01 0.5' (H244160-38)

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	07/12/2024	ND	2.01	100	2.00	4.02		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	304	16.0	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 02 0.5' (H244160-39)

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	07/12/2024	ND	2.01	100	2.00	4.02	
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 03 0.5' (H244160-40)

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	07/12/2024	ND	2.01	100	2.00	4.02	
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	07/12/2024	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	07/12/2024	ND	193	96.7	200	0.846	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	192	96.2	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 04 0.5' (H244160-41)

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	07/12/2024	ND	2.01	100	2.00	4.02	
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	128	16.0	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 05 0.5' (H244160-42)

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	07/12/2024	ND	2.01	100	2.00	4.02	
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78	
Total BTEX	<0.300	0.300	07/12/2024	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	80.0	16.0	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 06 0.5' (H244160-43)

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	07/12/2024	ND	2.01	100	2.00	4.02		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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



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Analytical Results For:

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

Received: 07/11/2024
Reported: 07/12/2024
Project Name: PLU 20 DTD PAD A
Project Number: 03C1558457
Project Location: XTO 32.20793-103.90713

Sampling Date: 07/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 07 0.5' (H244160-44)

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	07/12/2024	ND	2.01	100	2.00	4.02		
Toluene*	<0.050	0.050	07/12/2024	ND	1.93	96.6	2.00	2.35		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	1.97	98.5	2.00	1.70		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	5.81	96.8	6.00	1.78		
Total BTEx	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	07/12/2024	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	07/12/2024	ND	190	95.0	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	184	92.2	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Mike Snyder For 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 "Mike Snyder".

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO				ANALYSIS REQUEST			
Company Name: Ensolum, LLC	P.O. #:			Project Manager: Ben Beilli			
Address: 3122 National Parks Hwy	Company: XTO Energy Inc.			City: Carlsbad			
State: NM Zip: 88220	Attn: Amy Ruth			Phone #: 337 257-8307			
Fax #:	Address: 3104 E. Green St.			Project #: 03C1558457			
Project Owner: XTO	City: Carlsbad			Project Name: PLU 20 DTD Pad A			
State: NM Zip: 88220	Phone #:			Project Location:			
Sample Name: Omar Hamdy	Fax #:			FOR LAB USE ONLY			

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	CHLORIDE							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:														ICE / COOL
H344160	ES 118	2	C	<input checked="" type="checkbox"/>										7/11/24	8:25	V	V	V						
	ES 119	2	I	<input checked="" type="checkbox"/>											8:26	V	V	V						
	ES 120	2	I	<input checked="" type="checkbox"/>											8:27	V	V	V						
	ES 121	2	I	<input checked="" type="checkbox"/>											8:28	V	V	V						
	ES 122	2	I	<input checked="" type="checkbox"/>											8:29	V	V	V						
	ES 123	2	I	<input checked="" type="checkbox"/>											8:30	V	V	V						
	ES 124	2	I	<input checked="" type="checkbox"/>											8:31	V	V	V						
	ES 125	2	I	<input checked="" type="checkbox"/>											8:31	V	V	V						
	ES 126	2	A	<input checked="" type="checkbox"/>											8:32	V	V	V						

PLEASE NOTE: Liability and Damages: Contractor's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims excluding those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]	Date: 7-11-24	Received By: [Signature]	Date: 7-11-24
Time: 1525	Time:	Corrected Temp.: °C	Observed Temp.: °C
Relinquished By:	Time:	Corrected Temp.:	Observed Temp.:

Verbal Result: ☐ Yes ☒ No Add'l Phone #:
All Results are emailed. Please provide Email address: bbeilli@ensolum.com>, TMorrissey@ensolum.com

REMARKS: nAPP2418460531 Cost Center: 2255691001

Turnaround Time: Standard Rush
AD 7-11-24 10D 24 hrs

Thermometer ID #115 Bacteria (only)
Correction Factor +0.5°C Cool Intact ☒
☐ Yes ☐ No ☐ Yes ☐ No

Sample Condition Corrected Temp. °C



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Bellil

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 337 257-8307

Fax #:

Project #: 03C1558457

Project Owner: XTO

Project Name: PLU 20 DTD Pad A

Project Location:

Sampler Name: Omar Hamdy

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth (feet)

H24/H100

ES137

ES138

ES139

ES140

ES141

ES142

ES143

ES144

ES145

ES146

ES147

ES148

ES149

ES150

ES151

ES152

ES153

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ES428

ES429



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC						BILL TO						ANALYSIS REQUEST											
Project Manager: Ben Beilli						P.O. #:																	
Address: 3122 National Parks Hwy						Company: XTO Energy Inc.																	
City: Carlsbad						Attn: Amy Ruth																	
Phone #: 337 257-8307						Address: 3104 E. Green St.																	
Fax #:						City: Carlsbad																	
Project #: 03C1558457						State: NM Zip: 88220																	
Project Name: PLU 20 DTD Pad A						Phone #:																	
Project Location:						Fax #:																	
Sampler Name: Omar Hamdy						MATRIX						PRESERV						SAMPLING					
FOR LAB USE ONLY																							
Lab I.D.						Sample I.D.						Sample Depth (feet)						(G)RAB OR (C)OMP.					
												# CONTAINERS											
												GROUNDWATER											
												WASTEWATER											
												SOIL											
												OIL											
												SLUDGE											
												OTHER :											
												ACID/BASE:											
												ICE / COOL ✓											
												OTHER :											
												DATE						TIME					
31						ES 157						2						✓					
32						ES 158						2						✓					
33						ES 159						2						✓					
34						ES 160						2						✓					
35						ES 161						2						✓					
36						ES 162						2						✓					
37						ES 163						2						✓					
38						CS 01						0.5						✓					
39						CS 02						0.5						✓					
40						CS 03						0.5						✓					
PLEASE NOTE: Liability and Damages, Contractor's liability and clearly exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the services. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.												Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:											
Relinquished By: <i>Omar</i>												Time: 7/11/24											
Date: 7/11/24												Received By: <i>[Signature]</i>											
Relinquished By:												Date: 7/11/24											
Time:												Received By:											
Delivered By: (Circle One)												Observed Temp. °C											
Corrected Temp. °C												Sample Condition											
Cool Intact												Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Bacteria (only)												Sample Round Condition											
Cool Intact												Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Thermometer ID: <i>413</i>												Observed Temp. °C											
Correction Factor: -0.5°C												Corrected Temp. °C											
Turnaround Time: <i>24 hrs</i>												Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>											
Cost Center: 2255691001												Remarks: nAPP2418460531											



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Ben Beill

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 337 257-8307

Project #: 03C1558457

Project Name: PLU 20 DTD Pad A

Project Location:

Sampler Name: Omar Hamdy

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy Inc.

Attn: Amy Ruth

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Sample Depth (feet)

11244160

41
42
43
44

CS04
CS05
CS06
CS07

0.5
0.5
0.5
0.5

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

7/11/24 11:28

7/11/24 11:35

7/11/24 11:33

7/11/24 11:35

BTX

TPH

CHLORIDE

CHL

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 7-11-24

Received By:

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

All Results are emailed. Please provide Email address:

beill@ensolum.com, T Morrissey@ensolum.com

REMARKS: nAPP2418460531

Relinquished By:

Date: 7-13-25

Received By:

Relinquished By:

Time:

Received By:

Cost Center: 2255691001

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

(Initials)

Thermometer ID #443

Corrected

Cool Intact

Observed Temp. °C

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

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 387331

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	387331
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2418460531
Incident Name	NAPP2418460531 PLU 20 DTD PAD A @ 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 20 DTD Pad A
Date Release Discovered	06/28/2024
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: 24 BBL Recovered: 5 BBL Lost: 19 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 387331

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	387331
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a 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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/26/2024
--	--

District I

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

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QUESTIONS, Page 3

Action 387331

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	387331
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 100 and 200 (ft.)
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 100 and 200 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
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)	528
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
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	07/08/2024
On what date will (or did) the final sampling or liner inspection occur	07/11/2024
On what date will (or was) the remediation complete(d)	07/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	32600
What is the estimated volume (in cubic yards) that will be reclaimed	2450
What is the estimated surface area (in square feet) that will be remediated	32600
What is the estimated volume (in cubic yards) that will be remediated	2450

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

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State of New Mexico
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QUESTIONS, Page 4

Action 387331

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	387331
	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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/26/2024
<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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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 387331

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	387331
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

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS, Page 6

Action 387331

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 387331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	363347
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/17/2024
What was the (estimated) number of samples that were to be gathered	150
What was the sampling surface area in square feet	30000

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	32600
What was the total volume (cubic yards) remediated	2450
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	32600
What was the total volume (in cubic yards) reclaimed	2450
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the June 28, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/26/2024
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Action 387331

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	387331
	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 387331

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	387331
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 #NAPP2418460531 PLU 20 DTD PAD A, thank you. This Remediation Closure Report is approved.	10/10/2024