



May 7, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
Big Eddy Unit 248H and 249H
Incident Numbers nAPP2418043567, nAPP2432147637, nAPP2432531235, &
nAPP2502042071
API: 30-015-40714 & 30-015-40715
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 excavation and soil sampling activities performed at the Big Eddy Unit 248H and Big Eddy Unit 249H (Site), where a total of four releases occurred on the same pad. The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan (Work Plan)*, was to address impacted soil from multiple releases of crude oil and produced water at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Numbers nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071.

SITE DESCRIPTION AND RELEASE SUMMARY

All releases occurred in Eddy County, New Mexico (32.62087°, -103.83145°), at the Big Eddy Unit 248H and Big Eddy Unit 249H well pad. Release extent areas located west of the wellheads are located in Unit A, Section 35, Township 19 South, Range 31 East, and are associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). Release extent areas located east of the wellheads are located in Unit D, Section 36, Township 19 South, and Range 31 on State Trust Land managed by New Mexico State Land Office (NMSLO) under Lease ID V0-6323-0003.

Incident Number nAPP2418043567

On June 21, 2024, the packing on the wellhead stuffing box failed, resulting in the release of approximately 5 barrels (bbls) of crude oil and 9 bbls of produced water onto the surface of the pad and lightly over-spraying the northwest area of the pad and surrounding pasture following the dominant wind direction that day. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number nAPP2418043567.

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On September 20, 2024, XTO submitted a *Remediation Work Plan (September 2024 Work Plan)* to the NMOCD describing Site assessment and delineation activities completed. The *September 2024 Work Plan* proposed the following remediation activities:

- Excavation of an estimated 1,500 cubic yards of total petroleum hydrocarbon (TPH) and chloride-impacted soil;
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment; and
- The area of investigation will continue to be monitored, and photo documentation of the vegetation will be included in the final *Closure Report*.

On November 6, 2024, NMOCD approved the *September 2024 Work Plan* with the following conditions:

All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area will need confirmation floor/sidewall samples representing no more than 200 ft². All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Confirmation samples will need to be conducted at surface and at 0.5 feet in the "Area of Investigation" to ensure that contaminants didn't get carried/deposited in this area. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule.

On January 16, 2025, and after Site discussions with the NMOCD, XTO requested a sampling variance for the "area of investigation" confirmation floor soil sampling frequency of one composite sample to representing at most a 1,000 square foot area. The NMOCD approved the sampling variance the same day.

Incident Numbers: nAPP2432147637, nAPP2432531235, and nAPP2502042071

On November 16, 2024, the packing on the stuffing box of the Big Eddy Unit 249H well failed, resulting in the release of approximately 10 bbls of crude oil onto the surface of the well pad. No fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 16, 2024. The release was assigned Incident Number nAPP2432147637.

On November 19, 2024, an equipment failure at the Big Eddy Unit 248H wellhead resulted in the release of approximately 22 bbls of crude oil and 1 bbls of produced water onto the surface of the well pad. Four bbls of fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2432531235.

On January 17, 2025, an equipment failure at the Big Eddy Unit 249H wellhead resulted in the release of approximately 33 bbls of crude oil and 29 bbls of produced water onto the surface of the pad. Approximately 35 bbls of fluids were recovered. Furthermore, approximately 73 thousand cubic feet (Mcf) of natural gas were vented during the release. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2502042071.

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Ensolum conducted Site assessment and delineation activities following the three additional releases and presented the results in a Remediation Work Plan (*February 2025 Work Plan*) submitted on February 5, 2025. The *February 2025 Work Plan* was conditionally approved by the NMOCD on February 6, 2025. The approved *February 2025 Work Plan* proposed the following:

- Excavation of impacted soil across an estimated 34,375 square foot area on pad;
- Disposal of an estimated 3,800 cubic yards of impacted soil at the R360 landfill disposal facility; and
- Confirmation soil sampling completed in the area of investigation collected at a sampling frequency of every 1,000 square feet. Following discussion with the NMOCD this sampling frequency was confirmed on February 10, 2025. All other confirmation soil sampling within the excavation extent will be completed at a sampling frequency of every 200 square feet.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *September 2024 Work Plan and February 2025 Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Between January 8 and March 2, 2025, Ensolum personnel were onsite to collect confirmation soil samples in the area of investigation and oversee excavation of impacted soil according to the approved *February 2025 Work Plan*. Composite soil samples CS01 through CS88 were collected from the area of investigation every 1,000 square feet from the surface by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

Excavation activities were performed by the use of heavy equipment. To direct excavation activities, soil was field screened for VOCs and chloride. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS110 were collected from the floor of the excavation at depths ranging from 1-foot to 8 feet bgs. Confirmation soil samples SW01 through SW14 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 7 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 1. Photographic documentation of the excavation activities and final excavation extent is provided in Appendix A.

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

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

The final excavation extent measured approximately 30,200 square feet. A total of approximately 3,100 cubic yards of impacted soil were removed during the excavation activities. The impacted soil will be transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. Backfill activities are ongoing with material purchased locally and the Site will be recontoured to match pre-existing Site conditions.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for confirmation soil samples CS57, CS59, and CS60, collected at surface, indicated chloride and/or TPH concentrations exceeded Closure Criteria. Excavation was completed and the following excavation soil samples were collected: CS57A collected at 2 feet bgs, CS59 collected at 0.5 feet bgs, and CS60 collected at 0.5 feet bgs, and corresponding sidewalls SW04 through SW06 were collected from depths ranging from ground surface to 2 feet bgs. Laboratory analytical results for all final samples from the area of investigation indicated they were in compliance with Closure Criteria.

Laboratory analytical results for all final excavation confirmation soil samples indicated all COCs were in compliance with Closure Criteria, with the exception of excavation soil samples FS08, FS13, FS31, FS34, FS45, FS55, FS59, FS60, FS61, FS72, FS90, FS91, SW20, and SW23, which indicated chloride and/or TPH concentrations exceeded Closure Criteria. As a result, those areas that exceeded the Closure Criteria were excavated further and the subsequent confirmation soil samples were in compliance with the Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix B.

CLOSURE REQUEST

Excavation activities were conducted at the Site in accordance with the *February 2025 Work Plan* to address the four releases of crude oil and produced water. The approved February 4, 2025, *Work Plan* is included in Appendix C. Laboratory analytical results for all final excavation soil samples indicated all COC concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. Backfill is ongoing and the area will be recontoured to match pre-existing Site conditions.

Excavation of soil has removed impacted soil from the area. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Numbers nAPP2418043567, nAPP2432147637, nAPP2432531235, and nAPP2502042071.

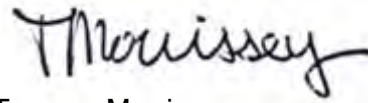
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If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



Tacoma Morrissey
Associate Principal

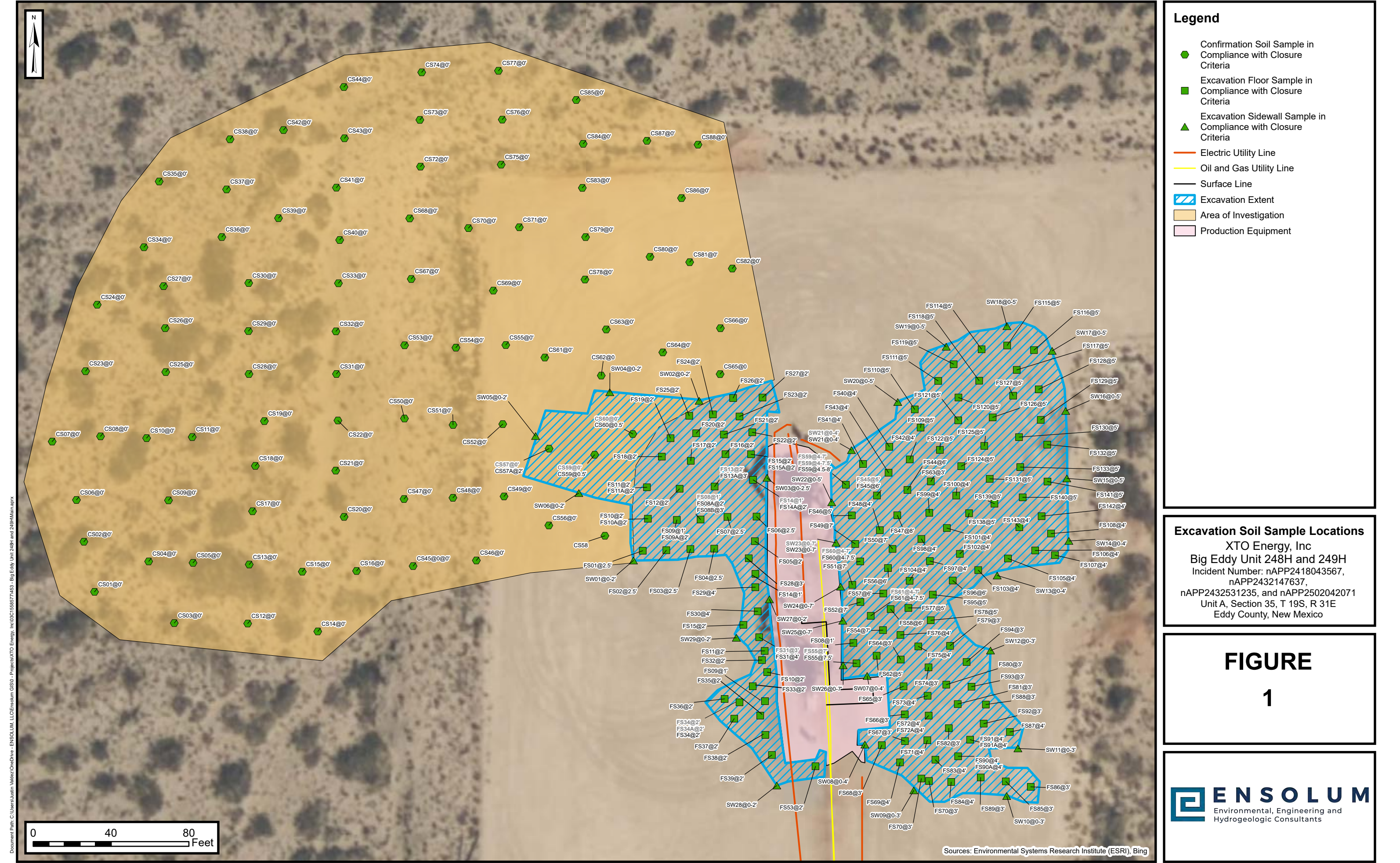
cc: Ashley McAfee, XTO
Kaylan Dirkx, XTO
New Mexico State Land Office
Bureau of Land Management

Appendices:

Figure 1 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Photographic Log
Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix C February 4, 2025, *Remediation Work Plan*



FIGURES





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 248H and 249H
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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
Confirmation Soil Samples										
CS01	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS02	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS03	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS04	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS05	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS06	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS07	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS08	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS09	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS10	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS11	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS12	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS13	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS14	02/19/2025	Surface	<0.050	<0.300	<10.0	31.5	<10.0	31.5	31.5	<16.0
CS15	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS16	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS17	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS18	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS19	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS20	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS21	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS22	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS23	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS24	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS25	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS26	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS27	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS28	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS29	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS30	02/19/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS31	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS32	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



TABLE 1
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS33	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS34	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS35	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS36	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS37	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS38	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS39	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS40	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS41	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS42	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS43	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS44	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS45	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS46	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS47	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS48	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS49	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS50	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS51	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS52	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
CS53	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS54	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS55	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS56	02/21/2025	Surface	<0.050	<0.300	<10.0	12.4	<10.0	12.4	12.4	64.0
CS57	02/21/2025	Surface	<0.050	<0.300	<10.0	428	50.3	428	478	2,600
CS57A	04/11/2025	2	<0.050	<0.300	<10.0	27.7	<10.0	27.7	27.7	464
CS58	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS59	02/21/2025	Surface	<0.050	<0.300	<10.0	344	125	344	469	460
CS59	04/01/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
CS60	02/21/2025	Surface	<0.050	<0.300	<10.0	654	282	654	933	48.0
CS60	04/01/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS61	02/21/2025	Surface	<0.050	<0.300	<10.0	13.1	<10.0	13.1	13.1	64.0
CS62	02/21/2025	Surface	<0.050	<0.300	<10.0	50.0	<10.0	50.0	50.0	64.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
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Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS63	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS64	02/21/2025	Surface	<0.050	<0.300	<10.0	10.9	<10.0	10.9	10.9	32.0
CS65	02/21/2025	Surface	<0.050	<0.300	<10.0	85.7	10.2	85.7	95.9	160
CS66	02/21/2025	Surface	<0.050	<0.300	<10.0	13.2	<10.0	13.2	13.2	32.0
CS67	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS68	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS69	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS70	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS71	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS72	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS73	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS74	02/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS75	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS76	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS77	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS78	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS79	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS80	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS81	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS82	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS83	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS84	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS85	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS86	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS87	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS88	02/21/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Excavation Soil Samples										
FS01	03/06/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS02	03/06/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS03	03/06/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS04	03/06/2025	2.5	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	304
FS05	03/06/2025	2	<0.050	<0.300	<10.0	17.7	<10.0	17.7	17.7	272
FS06	03/07/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 248H and 249H
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
FS07	03/07/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS08	03/06/2025	2	<0.050	<0.300	<10.0	127	29.0	127	156	144
FS08	03/11/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS09	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS10	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS11	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS12	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS13	03/06/2025	2	<0.050	<0.300	<10.0	113	13.2	113	126	144
FS13	03/11/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	03/06/2025	2	<0.050	<0.300	<10.0	26.9	<10.0	26.9	26.9	176
FS15	03/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS16	03/07/2025	2	<0.050	<0.300	<10.0	20.0	<10.0	20.0	20.0	160
FS17	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS18	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS19	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS20	03/07/2025	2	<0.050	<0.300	<10.0	29.2	<10.0	29.2	29.2	112
FS21	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS22	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS23	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS24	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS25	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS27	03/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS28	03/11/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS29	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS30	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS31	03/10/2025	3	<0.050	<0.300	<10.0	83.4	19.1	83.4	103	128
FS31	04/17/2025	4	<0.050	<0.300	<10.0	25.3	<10.0	25.3	25.3	240
FS32	04/04/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS33	03/11/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS34	03/11/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS34	03/13/2025	2	<0.050	<0.300	<10.0	252	45.8	252	298	352
FS34	04/17/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 248H and 249H
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
FS35	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS36	03/13/2025	2	<0.050	<0.300	<10.0	59.7	<10.0	59.7	59.7	160
FS37	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS38	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS39	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS40	03/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS41	03/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS42	03/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS43	04/04/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS44	03/17/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS45	04/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
FS45	04/25/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS46	04/04/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS47	03/17/2025	8	<0.050	<0.300	<10.0	13.9	<10.0	13.9	13.9	320
FS48	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS49	04/04/2025	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS50	04/10/2025	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS51	04/10/2025	7	<0.050	<0.300	<10.0	17.8	<10.0	17.8	17.8	64.0
FS52	04/10/2025	7	<0.050	<0.300	<10.0	13.9	<10.0	13.9	13.9	<16.0
FS53	03/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS54	04/10/2025	7	<0.050	<0.300	<10.0	13.4	<10.0	13.4	13.4	48.0
FS55	04/10/2025	7	<0.050	<0.300	<10.0	97.2	50.3	97.2	148	16.0
FS55	04/25/2025	7.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS56	03/13/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS57	03/13/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS58	03/13/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS59	03/17/2025	4-7	<0.050	<0.300	<10.0	36.2	<10.0	36.2	36.2	752
FS59	04/25/2025	4-7.5	<0.050	<0.300	<10.0	92.3	40	92.3	102.3	80.0
FS59	05/02/2025	4.5-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS60	03/17/2025	4-7	<0.050	<0.300	<10.0	87.9	25.6	87.9	114	1,550
FS60	04/25/2025	4-7.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS61	03/17/2025	4-7	<0.050	<0.300	<10.0	499	98.3	499	597	1,330
FS61	04/25/2025	4-7.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 248H and 249H
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
FS62	04/10/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS63	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS64	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS65	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS66	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS67	03/17/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS68	03/20/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS69	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS70	04/10/2025	3	<0.050	<0.300	<10.0	21.2	<10.0	21.2	21.2	32.0
FS71	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS72	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS72A	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS73	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS74	03/20/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS75	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS76	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS77	04/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS78	04/11/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS79	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS80	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS81	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS82	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS83	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS84	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS85	04/10/2025	3	<0.050	<0.300	<10.0	25.3	<10.0	25.3	25.3	32.0
FS86	03/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS87	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS88	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS89	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS90	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS90A	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS91	04/01/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS91A	04/02/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 248H and 249H
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
FS92	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS93	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS94	04/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
FS95	04/10/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS96	04/11/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS97	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS98	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS99	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS100	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS101	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS102	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS103	04/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS104	04/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS105	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS106	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS107	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS108	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS109	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS110	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS111	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS114	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS115	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS116	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS117	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS118	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS119	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS120	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS121	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS122	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS124	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS125	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS126	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS127	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 248H and 249H
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
FS128	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS129	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS130	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS131	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS132	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS133	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS138	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS139	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS140	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS141	03/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS142	03/31/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS143	03/31/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW01	03/10/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW02	03/10/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW03	03/10/2025	0-2.5	<0.050	<0.300	<10.0	23.8	<10.0	23.8	23.8	112
SW04	04/11/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW05	04/11/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW06	04/11/2025	0-2	<0.050	<0.300	<10.0	29.7	<10.0	29.7	29.7	192
SW07	04/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW08	04/02/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW09	04/11/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW10	04/11/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW11	04/11/2025	0-3	<0.050	<0.300	<10.0	63.2	10.4	63.2	73.6	48.0
SW12	04/11/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW13	04/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW14	04/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW15	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW16	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW17	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW18	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW19	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW20	04/11/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW21	04/11/2025	0-4	<0.050	<0.300	<10.0	71.4	28.8	71.4	100	64.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 248H and 249H
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
SW21	04/17/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW22	04/11/2025	0-5	<0.050	<0.300	<10.0	68.3	23.9	68.3	92.2	48.0
SW23	04/11/2025	0-7	<0.050	<0.300	<10.0	87.2	36.6	87.2	124	32.0
SW23	04/25/2025	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW24	04/11/2025	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW25	04/11/2025	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW26	04/11/2025	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW27	04/11/2025	0-2	<0.050	<0.300	<10.0	22.5	<10.0	22.5	22.5	16.0
SW28	04/11/2025	0-2	<0.050	<0.300	<10.0	27.1	<10.0	27.1	27.1	32.0
SW29	04/11/2025	0-2	<0.050	<0.300	<10.0	33.2	<10.0	33.2	33.2	16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Photographic Log



Photographic Log

XTO Energy, Inc

Big Eddy Unit 248H and 249H
nAPP2418043567, nAPP2432147637,
nAPP2432531235, & nAPP2502042071



Photograph: 1 Date: 2/19/2025
Description: Confirmation soil sampling activities
View: South



Photograph: 2 Date: 2/21/2025
Description: Confirmation soil sampling activities
View: North



Photograph: 3 Date: 3/5/2025
Description: Excavation activities
View: East



Photograph: 4 Date: 3/7/2025
Description: Excavation activities
View: Southeast



Photographic Log

XTO Energy, Inc

Big Eddy Unit 248H and 249H
nAPP2418043567, nAPP2432147637,
nAPP2432531235, & nAPP2502042071



Photograph: 5 Date: 3/13/2025
Description: Excavation activities
View: North



Photograph: 6 Date: 3/18/2025
Description: Excavation activities
View: North



Photograph: 7 Date: 3/31/2025
Description: Excavation activities
View: South



Photograph: 8 Date: 4/1/2025
Description: Excavation activities
View: East



Photographic Log

XTO Energy, Inc

Big Eddy Unit 248H and 249H
nAPP2418043567, nAPP2432147637,
nAPP2432531235, & nAPP2502042071

188°S (T) LAT: 32.621333 LON: -103.830977 ±6ft ▲ 3495ft



28°NE (T) LAT: 32.620582 LON: -103.831284 ±9ft ▲ 3491ft



Photograph: 9 Date: 4/1/2025
Description: Excavation activities
View: South

Photograph: 10 Date: 4/2/2025
Description: Excavation activities
View: Northeast



Photograph: 11 Date: 4/10/2025
Description: Excavation activities
View: North

Photograph: 12 Date: 4/25/2025
Description: Excavation activities
View: Northwest



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 05, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 05/02/25 12:15.

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/02/2025
 Reported: 05/05/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO 32.62085,-103.83132

Sampling Date: 05/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 59 4.5-8' (H252640-01)

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	05/02/2025	ND	1.78	89.1	2.00	10.1	
Toluene*	<0.050	0.050	05/02/2025	ND	1.87	93.6	2.00	10.9	
Ethylbenzene*	<0.050	0.050	05/02/2025	ND	1.86	92.8	2.00	11.9	
Total Xylenes*	<0.150	0.150	05/02/2025	ND	5.48	91.3	6.00	12.2	
Total BTX	<0.300	0.300	05/02/2025	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	352	16.0	05/02/2025	ND	480	120	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	05/02/2025	ND	209	104	200	2.83	
DRO >C10-C28*	<10.0	10.0	05/02/2025	ND	198	99.2	200	2.82	
EXT DRO >C28-C36	<10.0	10.0	05/02/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.0 % 40.6-153

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

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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*=Accredited Analyte

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

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

[illegible]



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

February 26, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 02/20/25 14:02.

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 dark ink, reading "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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 01 SURFACE (H251014-01)

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	02/22/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/22/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.70	112	6.00	4.34	
Total BTX	<0.300	0.300	02/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 02 SURFACE (H251014-02)

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	02/22/2025	ND	2.06	103	2.00	5.08		
Toluene*	<0.050	0.050	02/22/2025	ND	2.12	106	2.00	4.76		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.19	109	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.70	112	6.00	4.34		
Total BTEX	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 03 SURFACE (H251014-03)

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	02/22/2025	ND	2.06	103	2.00	5.08		
Toluene*	<0.050	0.050	02/22/2025	ND	2.12	106	2.00	4.76		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.19	109	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.70	112	6.00	4.34		
Total BTEx	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 04 SURFACE (H251014-04)

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	02/23/2025	ND	2.06	103	2.00	5.08		
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76		
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34		
Total BTX	<0.300	0.300	02/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 05 SURFACE (H251014-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2025	ND	2.06	103	2.00	5.08	
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76	
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34	
Total BTX	<0.300	0.300	02/23/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 06 SURFACE (H251014-06)

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	02/23/2025	ND	2.06	103	2.00	5.08		
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76		
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34		
Total BTX	<0.300	0.300	02/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 07 SURFACE (H251014-07)

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	02/23/2025	ND	2.06	103	2.00	5.08		
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76		
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	192	95.8	200	3.48	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	96.8	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 08 SURFACE (H251014-08)

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	02/23/2025	ND	2.06	103	2.00	5.08		
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76		
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34		
Total BTX	<0.300	0.300	02/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 09 SURFACE (H251014-09)

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	02/23/2025	ND	2.06	103	2.00	5.08		
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76		
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 10 SURFACE (H251014-10)

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	02/23/2025	ND	2.06	103	2.00	5.08		
Toluene*	<0.050	0.050	02/23/2025	ND	2.12	106	2.00	4.76		
Ethylbenzene*	<0.050	0.050	02/23/2025	ND	2.19	109	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/23/2025	ND	6.70	112	6.00	4.34		
Total BTEx	<0.300	0.300	02/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 11 SURFACE (H251014-11)

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	02/22/2025	ND	2.07	104	2.00	0.192	
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	QM-07, QR-03
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	QM-07, QR-03
Total BTX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 12 SURFACE (H251014-12)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 13 SURFACE (H251014-13)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 14 SURFACE (H251014-14)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEx	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	31.5	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 15 SURFACE (H251014-15)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 16 SURFACE (H251014-16)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 17 SURFACE (H251014-17)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEx	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 18 SURFACE (H251014-18)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTX	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 19 SURFACE (H251014-19)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEx	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 20 SURFACE (H251014-20)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 21 SURFACE (H251014-21)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEx	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 22 SURFACE (H251014-22)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 23 SURFACE (H251014-23)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 24 SURFACE (H251014-24)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEx	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 25 SURFACE (H251014-25)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTX	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 26 SURFACE (H251014-26)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 27 SURFACE (H251014-27)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	220	110	200	4.50	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	210	105	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 28 SURFACE (H251014-28)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEX	<0.300	0.300	02/22/2025	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	<16.0	16.0	02/21/2025	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	02/21/2025	ND	216	108	200	1.49	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	200	100	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 29 SURFACE (H251014-29)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTEx	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	216	108	200	1.49	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	200	100	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2025
Reported: 02/26/2025
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 30 SURFACE (H251014-30)

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	02/22/2025	ND	2.07	104	2.00	0.192		
Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78		
Total BTX	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/21/2025	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	02/21/2025	ND	216	108	200	1.49	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	200	100	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ensolium, LLC					
Project Manager:	Tracy Hillard					
Address:	3122 National Parks Hwy					
City:	Carlsbad					
Phone #:	575-937-3906					
State:	NM	zip:	88220			
Fax #:						
Project #:	03C1558453					
Project Owner:	XTO					
Project Name:	Big Eddy Unit 248H					
Project Location:	32.08526, -103.93856					
Sampler Name:	Azad Vojdani					
P.O. #:						
Company:	XTO Energy Inc.					
Attn:	Colton Brown					
Address:	3104 E. Greene St					
City:	Carlsbad					
State:	NM	Zip:	88220			
Phone #:						
Fax #:						

[illegible]

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Requisitioned By: <i>AD</i>	Date: <i>2-22-05</i>	Received By: <i>[Signature]</i>	Verbal Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Title: <i>1952</i>	<i>[Signature]</i>	All Results are emailed. Please provide Email address: TMorrissey@emsolum.com, TThiland@emsolum.com, AVolden@emsolum.com	
	Date:	Received By: <i>[Signature]</i>	REMARKS:	
	Time:		Incident # nA/P2418043567	CC: P140201001
Delivered By: (Circle One)	Observed Temp. °C: <i>1.2</i>	Sample Condition	CHECKED BY: <i>[Signature]</i>	Turnaround Time: <i>Standard</i>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <i>1.5</i>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes No Yes No		<i>Rush</i> <input checked="" type="checkbox"/>
			Thermometer ID: <i>9998440</i>	Bacteria (only) Sample Condition
			Corrected Factor: <i>-0.3°C</i>	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes No Yes No
				Observed Temp. °C
				Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to colley.keene@cardinalalumni.com

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[illegible]

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

February 27, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 31 SURFACE (H251071-01)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 32 SURFACE (H251071-02)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTEX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 33 SURFACE (H251071-03)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTEX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 34 SURFACE (H251071-04)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTEX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 35 SURFACE (H251071-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 36 SURFACE (H251071-06)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTEx	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 37 SURFACE (H251071-07)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTEx	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 38 SURFACE (H251071-08)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 39 SURFACE (H251071-09)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTEX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 40 SURFACE (H251071-10)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 101 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 41 SURFACE (H251071-11)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 42 SURFACE (H251071-12)

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	02/26/2025	ND	1.91	95.5	2.00	1.72		
Toluene*	<0.050	0.050	02/26/2025	ND	1.96	98.0	2.00	1.72		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.96	97.8	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.01	100	6.00	2.51		
Total BTX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 43 SURFACE (H251071-13)

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	02/26/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	ND	448	112	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 44 SURFACE (H251071-14)

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	02/26/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	02/25/2025	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 45 SURFACE (H251071-15)

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	02/26/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 46 SURFACE (H251071-16)

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	02/26/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296		
Total BTX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 47 SURFACE (H251071-17)

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	02/26/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 48 SURFACE (H251071-18)

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	02/26/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 49 SURFACE (H251071-19)

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	02/26/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	32.0	16.0	02/25/2025	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 50 SURFACE (H251071-20)

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	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	193	96.7	200	8.61	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	198	99.1	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 103 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 51 SURFACE (H251071-21)

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	02/27/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 52 SURFACE (H251071-22)

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	02/27/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	464	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 53 SURFACE (H251071-23)

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	02/27/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 54 SURFACE (H251071-24)

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	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 67 SURFACE (H251071-25)

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	02/27/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296		
Total BTEx	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 68 SURFACE (H251071-26)

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	02/27/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296		
Total BTEx	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	16.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 72 SURFACE (H251071-27)

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	02/27/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296		
Total BTEX	<0.300	0.300	02/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 73 SURFACE (H251071-28)

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	02/27/2025	ND	2.06	103	2.00	0.0715		
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296		
Total BTEx	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 74 SURFACE (H251071-29)

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	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	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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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



19

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2083

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST									
Project Manager: Tracy Hillard		P.O. #:											
Address: 601 N Marlenfeld Street, suite 400		Company: XTO Energy											
City: Midland		Attn: Colton Brown											
Phone #: 575-937-3906		Address:											
Fax #: 575-937-3906		City:											
Project #: 03C1558453		State: NM		Zip:									
Project Name: Big Eddy Unit 248H		Phone #:											
Project Location: 32.62085, -103.83132		Fax #:											
Sampler Name: Uriel Santillana													
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING			
					GROUNDWATER								
					WASTEWATER								
					SOIL								
					OIL								
					SLUDGE								
					OTHER:								
					ACID/BASE:								
					ICE / COOL								
					OTHER:								
						DATE	TIME						
AS1071	CS40	Surface		1		2/20/25	1135	X	X	X			
10	CS41						1140						
11	CS42						1145						
12	CS43						1150						
13	CS44						1155						
14	CS45						1200						
15	CS46						1205						
16	CS47						1210						
17	CS48						1215						
18	CS49						1220						
19													
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Relinquished By:		Date: 2/21/25	Received By: Speedkignur		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:								
Relinquished By:		Date: 1/30	Received By:		All Results are emailed. Please provide Email address: hillard@ensolum.com khomasen@ensolum.com usantillana@ensolum.com								
Time:		Time:		REMARKS:									
Time:		Time:		Cost Code: 1140201001 Incident Number nAPP2418043567									
Delivered By: (Circle One)		Temperature: -0.7°C		Sample Condition: Cool Intact		CHECKED BY: (Initials) SP							
Sampler - UPS - Bus - Other:		Corrected Temp: -0.4°C		Cool Intact Yes No		Turnaround Time: #140 Rush Standard							
						Thermometer ID: #118-10-30							
						Corrected Temp: 39°C							
						Bacteria (only) Sample Condition: Cool Intact Observed Temp: °C							
						Corrected Temp: °C							

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



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

February 27, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Coley D. Keene", written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 88 SURFACE (H251072-01)

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	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTX	<0.300	0.300	02/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	16.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 87 SURFACE (H251072-02)

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	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	16.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 86 SURFACE (H251072-03)

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	02/27/2025	ND	2.06	103	2.00	0.0715	
Toluene*	<0.050	0.050	02/27/2025	ND	2.10	105	2.00	0.0321	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.99	99.4	2.00	0.272	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.83	97.1	6.00	0.296	
Total BTEX	<0.300	0.300	02/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 85 SURFACE (H251072-04)

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	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTEX	<0.300	0.300	02/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	<16.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 81 SURFACE (H251072-05)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 82 SURFACE (H251072-06)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 84 SURFACE (H251072-07)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 83 SURFACE (H251072-08)

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	02/27/2025	ND	1.88	93.9	2.00	0.883	
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16	
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21	
Total BTX	<0.300	0.300	02/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 80 SURFACE (H251072-09)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 79 SURFACE (H251072-10)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 78 SURFACE (H251072-11)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 77 SURFACE (H251072-12)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 76 SURFACE (H251072-13)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEx	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 75 SURFACE (H251072-14)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 71 SURFACE (H251072-15)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	48.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 70 SURFACE (H251072-16)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	16.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 69 SURFACE (H251072-17)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 66 SURFACE (H251072-18)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	13.2	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 65 SURFACE (H251072-19)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	85.7	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	10.2	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 64 SURFACE (H251072-20)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	32.0	16.0	02/25/2025	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	02/25/2025	ND	189	94.4	200	3.99	
DRO >C10-C28*	10.9	10.0	02/25/2025	ND	186	93.0	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 63 SURFACE (H251072-21)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 61 SURFACE (H251072-22)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	64.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	13.1	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 59 SURFACE (H251072-23)

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	02/27/2025	ND	1.88	93.9	2.00	0.883		
Toluene*	<0.050	0.050	02/27/2025	ND	1.95	97.5	2.00	1.16		
Ethylbenzene*	<0.050	0.050	02/27/2025	ND	1.88	94.0	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/27/2025	ND	5.50	91.7	6.00	1.21		
Total BTEX	<0.300	0.300	02/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	160	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	344	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	125	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 60 SURFACE (H251072-24)

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	02/26/2025	ND	1.77	88.5	2.00	9.55		
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0		
Total BTEX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	651	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	282	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 55 SURFACE (H251072-25)

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	02/26/2025	ND	1.77	88.5	2.00	9.55		
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0		
Total BTEX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 56 SURFACE (H251072-26)

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	02/26/2025	ND	1.77	88.5	2.00	9.55		
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0		
Total BTEX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	12.4	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 57 SURFACE (H251072-27)

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	02/26/2025	ND	1.77	88.5	2.00	9.55	
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9	
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3	
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0	
Total BTEX	<0.300	0.300	02/26/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	128	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	50.3	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 58 SURFACE (H251072-28)

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	02/26/2025	ND	1.77	88.5	2.00	9.55		
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0		
Total BTEX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/24/2025
 Reported: 02/27/2025
 Project Name: BIG EDDY UNIT 248H
 Project Number: 03C1558453
 Project Location: XTO 32.62085-103.83132

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS 62 SURFACE (H251072-29)

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	02/26/2025	ND	1.77	88.5	2.00	9.55		
Toluene*	<0.050	0.050	02/26/2025	ND	1.76	88.0	2.00	13.9		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.67	83.3	2.00	19.3		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.17	86.2	6.00	18.0		
Total BTEX	<0.300	0.300	02/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	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	02/25/2025	ND	195	97.7	200	0.671	
DRO >C10-C28*	50.0	10.0	02/25/2025	ND	193	96.3	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Address: 601 N Marientfield Street, Suite 400 City: Midland State: TX Zip: 79701 Phone #: 575-937-3906 Fax #: 575-937-3906 Project #: 03C155-400 Project Owner: XTO Energy Project Name: Big Eddy Unit 248H Project Location: 32.62085, -103.83132 Sample Name: Evan Roe P.O. #: Company: XTO Energy, Inc Attn: Cotton Brown Address: 3104 E Greene St City: Carlsbad State: NM Zip: 88220 Phone #:									
BILL TO									
ANALYSIS REQUEST									
FROM LAB USE ONLY Lab I.D. Sample I.D. Depth (feet) (G) RAB OR (C) OMP # CONTAINERS MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: PRESERV: ACID/BASE, ICE / COOL, OTHER: DATE TIME TPH 8015 BTEX 8021 Chloride 4500									
PLEASE NOTE: Liability and Damages: Cardinal's liability and damages are limited to the amount paid by the client for the analysis. No other claims, including those for negligence and any other cause whatsoever shall be asserted against Cardinal within 90 days after completion of the application. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services furnished by Cardinal, regardless of whether such claim is based upon any of the above stated theories of recovery.									
Rollinquinshed By: <i>Evan Roe</i> Received By: <i>Medicinal</i> Date: <i>2/24/25</i> Time: <i>1:30</i> Rollinquinshed By: _____ Received By: _____ Date: _____ Time: _____ Delivered By: (Circle One) _____ Sample Condition: _____ Cooler Temp: _____ Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp: _____ Corrected Temp: _____ Sample: UPS - Bus - Other: _____									
Turnaround Time: <i>140 to 103c</i> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp: _____ Corrected Temp: _____ Remarks: _____ BBall@ensolum.com, TMonissey@ensolum.com, THillard@ensolum.com Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____									



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:

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

Phone #: 575-937-3906

Project #: 03C155-8453

Project Name: Big Eddy Unit 248H

Project Location: 32.62085,-103.83132

Sampler Name: Evan Roe

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

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

DATE TIME

TPH 8015
BTX 8021
Chloride 4500

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

PRESERV

SAMPLING

11	CS	28	Surface	C	1	✓	2/21/25	1132	✓	✓	✓								
12	CS	77	Surface	C	1	✓	2/21/25	1136	✓	✓	✓								
13	CS	76	Surface	C	1	✓	2/21/25	1139	✓	✓	✓								
14	CS	75	Surface	C	1	✓	2/21/25	1142	✓	✓	✓								
15	CS	71	Surface	C	1	✓	2/21/25	1146	✓	✓	✓								
16	CS	70	Surface	C	1	✓	2/21/25	1150	✓	✓	✓								
17	CS	69	Surface	C	1	✓	2/21/25	1219	✓	✓	✓								
18	CS	66	Surface	C	1	✓	2/21/25	1226	✓	✓	✓								
19	CS	65	Surface	C	1	✓	2/21/25	1233	✓	✓	✓								
20	CS	64	Surface	C	1	✓	2/21/25	1238	✓	✓	✓								

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Relinquished By:

Evan R

Date: 2/24/25

Time: 1330

Received By:

Speedrigney

Relinquished By:

Date:

Time:

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Temperature: -0.7°C

Corrected Temp: -0.4°C

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

Turnaround Time: 140 + 0.3 Standard

Thermometer ID: #44

Bacteria (only) Sample Condition

Cool Intact

Observed Temp: °C

Corrected Temp: °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 11, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/10/25 12:45.

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/11/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 06 2.5' (H251384-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEx	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 136 % 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	03/11/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 07 2.5' (H251384-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	03/11/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 16 2' (H251384-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEX	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	03/11/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	20.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 17 2' (H251384-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	03/11/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 18 2' (H251384-05)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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	03/11/2025	ND	416	104	400	7.41	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 19 2' (H251384-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27	
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711	
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33	
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04	
Total BTEx	<0.300	0.300	03/10/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/11/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 20 2' (H251384-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEX	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	03/11/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	29.2	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 21 2' (H251384-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEx	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	03/11/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 22 2' (H251384-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEx	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	03/11/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 23 2' (H251384-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEx	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/11/2025	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	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 24 2' (H251384-11)

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	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEX	<0.300	0.300	03/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/11/2025	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	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 25 2' (H251384-12)

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	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEX	<0.300	0.300	03/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/11/2025	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	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 26 2' (H251384-13)

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	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEx	<0.300	0.300	03/10/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/11/2025	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	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2025
Reported: 03/11/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/07/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 27 2' (H251384-14)

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	03/10/2025	ND	2.00	99.9	2.00	4.27		
Toluene*	<0.050	0.050	03/10/2025	ND	2.17	108	2.00	0.711		
Ethylbenzene*	<0.050	0.050	03/10/2025	ND	2.31	116	2.00	2.33		
Total Xylenes*	<0.150	0.150	03/10/2025	ND	7.29	121	6.00	5.04		
Total BTEX	<0.300	0.300	03/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/11/2025	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	03/10/2025	ND	197	98.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	03/10/2025	ND	195	97.4	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	03/10/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.6 % 40.6-153

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolium, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Tracy Hillard		Company: XTO Energy Inc.					
Address: 3122 National Parks Hwy		Attn: Colton Brown					
City: Carlsbad		Address: 3104 E. Green St.					
State: NM Zip: 88220		City: Carlsbad					
Phone #: 575-937-3906		State: NM Zip: 88220					
Fax #: 575-937-3906		Phone #:					
Project #: 03C1558453 & 03C1558587		Project Owner: XTO					
Project Name: Big Eddy Unit 248 H & 249H		State: NM Zip: 88220					
Project Location: 32.62085, -103.83132		Phone #:					
Sampler Name: Jesse Dorman		Fax #:					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	CHLORIDE
H251384	F506	2.5'	C	1	GROUNDWATER			5/7/25	11:00			
	F507	2.5'	C	1	WASTEWATER			11:05				
	F516	2.5'	C	1	SOIL			11:10				
	F517	2.5'	C	1	SLUDGE			11:15				
	F518	2.5'	C	1	OTHER			11:40				
	F519	2.5'	C	1	ACID/BASE			11:45				
	F520	2.5'	C	1	ICE / COOL			11:50				
	F521	2.5'	C	1	OTHER			11:55				
	F522	2.5'	C	1				13:10				
	F523	2.5'	C	1				13:15				

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	43	Cool Intact	(Initials)	44h	Rush	Yes	Cool Intact
Corrected Temp. °C	44.6	Yes	4.0	44h	Yes	Yes	Observed Temp. °C
		No			No	No	Corrected Temp. °C

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	5/10/25	12:45	Jesse Dorman	5/10/25	12:45

Verbal Result:	Yes	No	Add'l Phone #:
All Results are emailed. Please provide Email address:			
Beall@ensolium.com			
Thomson@ensolium.com			
Thillard@ensolium.com			

REMARKS:
Cost Center: 1140201001
Incident ID: NAPP2418043567, NAPP2432147637, NAPP2432531235, NAPP2500042071



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

March 12, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/11/25 15:15.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.62085-103.83132		

Sample ID: SW 01 0-2' (H251425-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01		
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84		
Total BTEx	<0.300	0.300	03/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/12/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/11/2025
Reported: 03/12/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/10/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 02 0-2' (H251425-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01		
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84		
Total BTEx	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/12/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/11/2025
Reported: 03/12/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/10/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 03 0-2.5' (H251425-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01		
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84		
Total BTEx	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/12/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	23.8	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/11/2025
Reported: 03/12/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/10/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 31 3' (H251425-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01		
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84		
Total BTEx	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/12/2025	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	83.4	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	19.1	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/11/2025
Reported: 03/12/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/10/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 40 4' (H251425-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01		
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84		
Total BTEx	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/12/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/11/2025
Reported: 03/12/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/10/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 41 4' (H251425-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	2.00	99.9	2.00	2.01		
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84		
Total BTEx	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/12/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/11/2025
Reported: 03/12/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/10/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 42 4' (H251425-07)

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	03/11/2025	ND	2.00	99.9	2.00	2.01	
Toluene*	<0.050	0.050	03/11/2025	ND	2.11	105	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.07	103	2.00	3.67	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.06	101	6.00	3.84	
Total BTX	<0.300	0.300	03/11/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/12/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	193	96.4	200	12.4	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	187	93.4	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

March 17, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/14/25 9:22.

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 dark ink, appearing to read "Coley D. Keene", written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/13/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 34 2' (H251525-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTEX	<0.300	0.300	03/14/2025	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	352	16.0	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	252	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	45.8	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/14/2025
Reported: 03/17/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 35 2' (H251525-02)

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	03/14/2025	ND	2.09	104	2.00	11.0		
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41		
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749		
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598		
Total BTX	<0.300	0.300	03/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	208	16.0	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/13/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 36 2' (H251525-03)

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	03/14/2025	ND	2.09	104	2.00	11.0		
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41		
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749		
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598		
Total BTX	<0.300	0.300	03/14/2025	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	160	16.0	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	59.7	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/14/2025
Reported: 03/17/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 37 2' (H251525-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0		
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41		
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749		
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598		
Total BTEX	<0.300	0.300	03/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/13/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 38 2' (H251525-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
Total BTX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/14/2025
Reported: 03/17/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 39 2' (H251525-06)

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	03/14/2025	ND	2.09	104	2.00	11.0		
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41		
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749		
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598		
Total BTX	<0.300	0.300	03/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	96.0	16.0	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/14/2025
Reported: 03/17/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 53 2' (H251525-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0		
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41		
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749		
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598		
Total BTEX	<0.300	0.300	03/14/2025	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	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/13/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 56 6' (H251525-08)

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	03/14/2025	ND	2.09	104	2.00	11.0		
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41		
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749		
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598		
Total BTX	<0.300	0.300	03/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/14/2025
Reported: 03/17/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 57 6' (H251525-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0		
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41		
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749		
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598		
Total BTX	<0.300	0.300	03/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	320	16.0	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/13/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 58 6' (H251525-10)

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	03/14/2025	ND	2.09	104	2.00	11.0		
Toluene*	<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41		
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749		
Total Xylenes*	<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598		
Total BTX	<0.300	0.300	03/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	03/17/2025	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	03/14/2025	ND	194	97.2	200	9.16	
DRO >C10-C28*	<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	03/14/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

March 19, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/18/25 13:38.

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 dark ink, reading "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 44 6 (H251580-01)

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	03/18/2025	ND	1.94	97.0	2.00	1.08	
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28	
Total BTX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 59 4-7' (H251580-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08		
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28		
Total BTEX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	36.2	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 60 4-7' (H251580-03)

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	03/18/2025	ND	1.94	97.0	2.00	1.08		
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28		
Total BTX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	87.9	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	25.6	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 61 4-7' (H251580-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08		
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28		
Total BTEX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	499	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	98.3	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 47 8 (H251580-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2025	ND	1.94	97.0	2.00	1.08		
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28		
Total BTEX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	13.9	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

March 19, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/18/25 13:38.

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 dark ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 64 3' (H251581-01)

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	03/18/2025	ND	1.94	97.0	2.00	1.08		
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28		
Total BTX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 65 3' (H251581-02)

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	03/18/2025	ND	1.94	97.0	2.00	1.08		
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28		
Total BTX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 66 3' (H251581-03)

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	03/18/2025	ND	1.94	97.0	2.00	1.08		
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28		
Total BTX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/18/2025
Reported: 03/19/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 67 3' (H251581-04)

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	03/18/2025	ND	1.94	97.0	2.00	1.08		
Toluene*	<0.050	0.050	03/18/2025	ND	2.04	102	2.00	0.572		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.00	99.8	2.00	0.888		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.83	97.2	6.00	1.28		
Total BTX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/19/2025	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	03/18/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

March 28, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/24/25 12:15.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/24/2025	Sampling Date:	03/20/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558577	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 68 3' (H251704-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.92	95.9	2.00	4.60		
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89		
Total BTEX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2025	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	03/25/2025	ND	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/24/2025
Reported: 03/28/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 74 3' (H251704-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.92	95.9	2.00	4.60		
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89		
Total BTEx	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/25/2025	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	03/25/2025	ND	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

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

[illegible]



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

March 28, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/24/25 12:15.

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 dark ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/24/2025	Sampling Date:	03/21/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558577	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 86 3 (H251705-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.92	95.9	2.00	4.60	
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89	
Total BTEX	<0.300	0.300	03/25/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/25/2025	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	03/25/2025	ND	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/24/2025
Reported: 03/28/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 105 4 (H251705-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.92	95.8	2.00	3.41		
Toluene*	<0.050	0.050	03/26/2025	ND	2.07	103	2.00	6.15		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.36	118	2.00	7.49		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.07	118	6.00	7.13		
Total BTEx	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/25/2025	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	03/25/2025	ND	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 74.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/24/2025
Reported: 03/28/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 106 4 (H251705-03)

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	03/26/2025	ND	1.92	95.8	2.00	3.41		
Toluene*	<0.050	0.050	03/26/2025	ND	2.07	103	2.00	6.15		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.36	118	2.00	7.49		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.07	118	6.00	7.13		
Total BTX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/25/2025	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	03/25/2025	ND	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/24/2025
Reported: 03/28/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 107 4 (H251705-04)

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	03/26/2025	ND	1.92	95.8	2.00	3.41		
Toluene*	<0.050	0.050	03/26/2025	ND	2.07	103	2.00	6.15		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.36	118	2.00	7.49		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.07	118	6.00	7.13		
Total BTX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	03/25/2025	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	03/25/2025	ND	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/24/2025
Reported: 03/28/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 108 4 (H251705-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.92	95.8	2.00	3.41		
Toluene*	<0.050	0.050	03/26/2025	ND	2.07	103	2.00	6.15		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.36	118	2.00	7.49		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.07	118	6.00	7.13		
Total BTEx	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/25/2025	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	03/25/2025	ND	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	195	97.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

April 07, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/01/25 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/01/2025	Sampling Date:	03/31/2025
Reported:	04/07/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 109 5' (H251919-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2025	ND	1.97	98.4	2.00	4.78	
Toluene*	<0.050	0.050	04/02/2025	ND	2.03	102	2.00	3.34	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.60	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.04	117	6.00	2.48	
Total BTX	<0.300	0.300	04/02/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 110 5' (H251919-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.97	98.4	2.00	4.78		
Toluene*	<0.050	0.050	04/02/2025	ND	2.03	102	2.00	3.34		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.60		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.04	117	6.00	2.48		
Total BTX	<0.300	0.300	04/02/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 111 5' (H251919-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 114 5' (H251919-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEx	<0.300	0.300	04/02/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 115 5' (H251919-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 116 5' (H251919-06)

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	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 117 5' (H251919-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 118 5' (H251919-08)

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	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.0 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 119 5' (H251919-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 120 5' (H251919-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.8 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 121 5' (H251919-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEX	<0.300	0.300	04/02/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 122 5' (H251919-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEx	<0.300	0.300	04/02/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.4 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 124 5' (H251919-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.7 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 125 5' (H251919-14)

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	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.0 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 126 5' (H251919-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	214	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	204	102	200	0.742	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 127 5' (H251919-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	04/02/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 128 5' (H251919-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 129 5' (H251919-18)

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	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 130 5' (H251919-19)

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	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 131 5' (H251919-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	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	224	16.0	04/02/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 132 5' (H251919-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	96.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 133 5' (H251919-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.72	86.0	2.00	17.5		
Toluene*	<0.050	0.050	04/02/2025	ND	1.88	94.2	2.00	12.1		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	97.9	2.00	8.74		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.02	100	6.00	7.85		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 138 5' (H251919-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373		
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831		
Total BTEx	<0.300	0.300	04/02/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 139 5' (H251919-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373		
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 140 5' (H251919-25)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373		
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831		
Total BTX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	96.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 141 5' (H251919-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373		
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831		
Total BTEx	<0.300	0.300	04/02/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
Reported: 04/07/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/31/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 142 4' (H251919-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373		
Toluene*	<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831		
Total BTEX	<0.300	0.300	04/02/2025	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	304	16.0	04/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/01/2025	Sampling Date:	03/31/2025
Reported:	04/07/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 143 4' (H251919-28)

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	04/03/2025	ND	1.85	92.3	2.00	0.373		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.8	2.00	0.0378		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.00	99.9	2.00	0.591		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.21	103	6.00	0.831		
Total BTX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	272	16.0	04/02/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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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.
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 cursive script, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

FOIPA-006 R 3.2 10/07/2011



ANALYSIS REQUEST

Page 32 of 33



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 575-937-3906

Project #: 03C1558453 / 03C1558587

Project Name: Big Eddy Unit 24BH / 249H

Project Location: 32.62085, -103.83132

Sampler Name: Alex Ferrell

P.O. #:

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

State: NM Zip: 88220

City: Carlsbad

Project Owner: XTO

Matrix: ☒ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER:

Preserv: ☒ ACID/BASE: ☒ ICE / COOL ☐ OTHER:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	DATE	TIME	Chlorides	TPH	BTEX
A251919	FS132	5'	C	1	3/31/25	1300	X	X	X
31	FS133	5'	C	1	3/31/25	1306	X	X	X
32	FS138	5'	C	1	3/31/25	1357	X	X	X
33	FS139	5'	C	1	3/31/25	1403	X	X	X
34	FS140	5'	C	1	3/31/25	1435	X	X	X
35	FS141	5'	C	1	3/31/25	1441	X	X	X
36	FS142	4'	C	1	3/31/25	1444	X	X	X
37	FS143	4'	C	1	3/31/25	1448	X	X	X
38									

Relinquished By: [Signature]

Received By: [Signature]

Date: 4/1/25

Time: 1330

Observed Temp. °C: 0.1

Corrected Temp. °C: 0.4

Sample Condition: ☒ Cool ☐ Intact

Checked By: [Signature]

Remarks: NAPP2418043567, NAPP2432147637, NAPP2432531235, NAPP2502042071

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID: #146

Bacteria (only): ☐ Cool ☐ Intact

Sample Condition: ☐ Cool ☐ Intact

Observed Temp. °C:

Corrected Temp. °C:



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

April 09, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/03/25 13:15.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/03/2025	Sampling Date:	04/02/2025
Reported:	04/09/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558577	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 72 A 4' (H251978-01)

BTX 8021B		mg / kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85		
Total BTX	<0.300	0.300	04/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	04/04/2025	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	04/05/2025	ND	194	97.1	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	206	103	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 74.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.0 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 91 A 4' (H251978-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTX	<0.300	0.300	04/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	04/04/2025	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	04/05/2025	ND	194	97.1	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	206	103	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 90 A 4' (H251978-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85		
Total BTX	<0.300	0.300	04/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 08 0-4' (H251978-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85		
Total BTEx	<0.300	0.300	04/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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



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: Tracy Hillard

P.O. #:

Address: 3122 National Parks Hwy

Company: XTO Energy Inc

City: Carlsbad

State: NM Zip: 88220

Attn: Colton Brown

Phone #: 575-937-3906

Fax #:

Address: 3104 E Green St

Project #: 03C1558453 / 03C1558577

City: Carlsbad

Project Name: Big Eddy Unit 248H / 249H

State: NM Zip: 88220

Project Location: 32.62085, -103.83132

Phone #:

Sampler Name: Alex Ferrell

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
H45P78	1 FS72A	4'			X										
	2 FS91A	4'			X										
	3 FS90A	4'			X										
	4 SW08	0-4'			X										

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customer. All claims for damages shall be submitted to the customer's insurance carrier. The customer shall be responsible for the cost of any and all damages to the customer's property.

For the purpose of this form, the customer shall be responsible for the cost of any and all damages to the customer's property. The customer shall be responsible for the cost of any and all damages to the customer's property.

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

April 09, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/03/25 13:15.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/03/2025	Sampling Date:	04/01/2025
Reported:	04/09/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558577	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 69 4' (H251979-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89	
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85	
Total BTEX	<0.300	0.300	04/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 83 4' (H251979-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85		
Total BTEx	<0.300	0.300	04/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	96.0	16.0	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 84 4' (H251979-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/06/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/06/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/06/2025	ND	7.67	128	6.00	6.85		
Total BTEX	<0.300	0.300	04/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 90 4' (H251979-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/07/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.67	128	6.00	6.85		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	384	16.0	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 71 4' (H251979-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/07/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.67	128	6.00	6.85		
Total BTX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 91 4' (H251979-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/07/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.67	128	6.00	6.85		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 87 4' (H251979-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2025	ND	2.06	103	2.00	4.89		
Toluene*	<0.050	0.050	04/07/2025	ND	2.19	109	2.00	4.10		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.51	125	2.00	5.98		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.67	128	6.00	6.85		
Total BTEX	<0.300	0.300	04/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/04/2025	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	04/04/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/04/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/04/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 72 4' (H251979-08)

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	04/06/2025	ND	1.97	98.3	2.00	2.12		
Toluene*	<0.050	0.050	04/06/2025	ND	1.99	99.7	2.00	0.00491		
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.09	104	2.00	1.96		
Total Xylenes*	<0.150	0.150	04/06/2025	ND	6.52	109	6.00	2.37		
Total BTX	<0.300	0.300	04/06/2025	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	560	16.0	04/04/2025	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	04/05/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 73 4' (H251979-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/06/2025	ND	1.97	98.3	2.00	2.12		
Toluene*	<0.050	0.050	04/06/2025	ND	1.99	99.7	2.00	0.00491		
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.09	104	2.00	1.96		
Total Xylenes*	<0.150	0.150	04/06/2025	ND	6.52	109	6.00	2.37		
Total BTX	<0.300	0.300	04/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/04/2025	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	04/05/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.6 % 40.6-153

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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 60 0.5' (H251979-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	ND	1.97	98.3	2.00	2.12	
Toluene*	<0.050	0.050	04/06/2025	ND	1.99	99.7	2.00	0.00491	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.09	104	2.00	1.96	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	6.52	109	6.00	2.37	
Total BTX	<0.300	0.300	04/06/2025	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	160	16.0	04/04/2025	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	04/05/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2025
Reported: 04/09/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/01/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS 59 0.5' (H251979-11)

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	04/06/2025	ND	1.97	98.3	2.00	2.12	
Toluene*	<0.050	0.050	04/06/2025	ND	1.99	99.7	2.00	0.00491	
Ethylbenzene*	<0.050	0.050	04/06/2025	ND	2.09	104	2.00	1.96	
Total Xylenes*	<0.150	0.150	04/06/2025	ND	6.52	109	6.00	2.37	
Total BTX	<0.300	0.300	04/06/2025	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	592	16.0	04/04/2025	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	04/05/2025	ND	199	99.3	200	7.99	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	106	200	6.42	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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 cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Tracy Hillard Address: 3122 National Parks Hwy City: Carlsbad Phone #: 575-937-3906 Project #: 03C1558453 / 03C1558577 Project Name: Big Eddy Unit 249H / 249H Project Location: 32.62085, -103.83132 Sampler Name: Alex Ferrell				P.O. #: Company: XTO Energy Inc Attn: Colton Brown Address: 3104 E Green St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:			
State: NM Zip: 88220				BILL TO			
Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:				PRESERV:			
Sample L.D.				Depth (feet)			
Lab L.D.				DATE			
Time				TIME			
CS60				1506			
FS69				1101			
FS83				1106			
FS84				1032			
FS90				1109			
FS71				1118			
FS91				1114			
FS87				1123			
FS72				1148			
FS73				1152			
0.5'				4/1/25			
0.5'				1506			
Chlorides				X			
TPH				X			
BTEX				X			
RELINQUISHED BY:				RECEIVED BY:			
DATE:				DATE:			
TIME:				TIME:			
DELIVERED BY:				DELIVERED BY:			
SAMPLER - UPS - BUS - OTHER:				SAMPLER - UPS - BUS - OTHER:			
REMARKS:				REMARKS:			
VERBAL RESULT:				VERBAL RESULT:			
ALL RESULTS ARE EMAILLED. PLEASE PROVIDE EMAIL ADDRESS:				ALL RESULTS ARE EMAILLED. PLEASE PROVIDE EMAIL ADDRESS:			
THILLARD@ENSOLUM.COM, THILLARD@ENSOLUM.COM, KTHILLARD@ENSOLUM.COM				THILLARD@ENSOLUM.COM, THILLARD@ENSOLUM.COM, KTHILLARD@ENSOLUM.COM			
REMARKS:				REMARKS:			
INCIDENT: NAPP2418943567, NAPP2432147637, NAPP2432531235, NAPP2502042071				INCIDENT: NAPP2418943567, NAPP2432147637, NAPP2432531235, NAPP2502042071			
COST CENTER: 1140201001				COST CENTER: 1140201001			
TURNAROUND TIME:				TURNAROUND TIME:			
STANDARD:				STANDARD:			
BACTERIA (ONLY) SAMPLE CONDITION:				BACTERIA (ONLY) SAMPLE CONDITION:			
COOL INTACT:				COOL INTACT:			
CORRECTED TEMP. °C:				CORRECTED TEMP. °C:			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

P.O. #:

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 3122 National Parks Hwy

State: NM Zip: 88220

City: Carlsbad

Fax #:

Project #: 03C1558453 / 03C1558577 Project Owner: XTO

Project Name: Big Eddy Unit 248H / 249H

Project Location: 32.62085, -103.83132

Sampler Name: Alex Ferrell

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

H51919

CS59

0.5

C

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

1531

4/1/25

Chlorides

TPH

BTEX

AF

PLEASE NOTE: Liability and client's exclusive remedy for any claim arising out of or from this contract is limited to the amount paid by the client for the service. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the application. 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 from this contract. The performance of services hereunder by Cardinal is subject to the terms and conditions set forth in the attached terms and conditions of service.

Relinquished By:

Date: 4-3-25

Received By:

Signature of Alex Ferrell

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

All Results are emailed. Please provide Email address:

THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com

Relinquished By:

Date: 4-3-25

Received By:

Signature of Tracy Hillard

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

All Results are emailed. Please provide Email address:

THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com

Relinquished By:

Date: 4-3-25

Received By:

Signature of Alex Ferrell

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

All Results are emailed. Please provide Email address:

THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com

Relinquished By:

Date: 4-3-25

Received By:

Signature of Alex Ferrell

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

All Results are emailed. Please provide Email address:

THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com

FOR LAB USE ONLY

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



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

April 08, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/07/25 11:46.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/07/2025
Reported: 04/08/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/04/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 32 2' (H252033-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2025	ND	2.02	101	2.00	18.1	
Toluene*	<0.050	0.050	04/07/2025	ND	1.96	97.9	2.00	19.2	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	19.1	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.34	106	6.00	19.2	
Total BTX	<0.300	0.300	04/07/2025	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	04/07/2025	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	04/07/2025	ND	197	98.6	200	0.709	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	207	103	200	0.0271	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.5 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/07/2025
Reported: 04/08/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/04/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 43 4' (H252033-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2025	ND	2.02	101	2.00	18.1		
Toluene*	<0.050	0.050	04/07/2025	ND	1.96	97.9	2.00	19.2		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	19.1		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.34	106	6.00	19.2		
Total BTEx	<0.300	0.300	04/07/2025	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	192	16.0	04/07/2025	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	04/07/2025	ND	197	98.6	200	0.709	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	207	103	200	0.0271	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

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

Received: 04/07/2025
Reported: 04/08/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/04/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 46 5' (H252033-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2025	ND	2.02	101	2.00	18.1		
Toluene*	<0.050	0.050	04/07/2025	ND	1.96	97.9	2.00	19.2		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	19.1		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.34	106	6.00	19.2		
Total BTEx	<0.300	0.300	04/07/2025	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	352	16.0	04/07/2025	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	04/08/2025	ND	197	98.6	200	0.709	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	207	103	200	0.0271	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/07/2025
Reported: 04/08/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 04/04/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 49 7' (H252033-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2025	ND	2.02	101	2.00	18.1		
Toluene*	<0.050	0.050	04/07/2025	ND	1.96	97.9	2.00	19.2		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	19.1		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.34	106	6.00	19.2		
Total BTEx	<0.300	0.300	04/07/2025	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	416	16.0	04/07/2025	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	04/08/2025	ND	197	98.6	200	0.709	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	207	103	200	0.0271	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.8 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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: Tracy Hillard

P.O. #:

Address: 601 N Marland Street, Suite 400

Company: XTO Energy, Inc

City: Midland

State: TX Zip: 79701

Attn: Colton Brown

Phone #: 575-137-3506 Fax #:

Address: 3104 E Greene St

Project #: 031558577 Project Owner: XTO Energy

City: Carlsbad

Project Name: Big Elk Unit 248HA 249K - SPILLS

State: NM Zip: 88220

Project Location: 32.62085, -103.63132

Phone #:

Sampler Name: Kevin R

Fax #:

FOR LAB USE ONLY

MATRIX PRESERV SAMPLING

Lab I.D. Sample I.D.

Depth (feet)

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

DATE TIME

TPH 8015 BTEX 8021 Chloride 4500

1	FS 32	2	C1	✓	4-4-25	1401	✓	✓	✓
2	FS 43	4	C1	✓	4-4-25	1410	✓	✓	✓
3	FS 46	5	C1	✓	4-4-25	1419	✓	✓	✓
4	FS 49	7	C1	✓	4-4-25	1429	✓	✓	✓

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Relinquished By:

Date: 4-1-25

Received By:

Kevin R

skateigney

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

Remarks: Incident Number: 114021001

Delivered By: (Circle One)

Overseas Temp: 2.10

Sample Condition

Checked By: (Initials)

Sampler - UPS - Bus - Other:

Corrected Temp: 32.9

Cool Intact

Yes

No

Yes

No

Turnaround Time: 140-18-3

Thermometer ID: 7773

Standard

24h

Bacteria (only)

Sample Condition

Observed Temp: °C

Corrected Temp: °C

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



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

April 16, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/11/25 15:44.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 29 4 (H252181-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	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	160	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 30 4 (H252181-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTX	<0.300	0.300	04/14/2025	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	256	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 48 4 (H252181-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTX	<0.300	0.300	04/14/2025	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	64.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 50 7 (H252181-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTEX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 51 7 (H252181-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	17.8	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 52 7 (H252181-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTEX	<0.300	0.300	04/14/2025	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	<16.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	13.9	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 54 7 (H252181-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTEX	<0.300	0.300	04/14/2025	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	48.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	13.4	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 55 7 (H252181-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	16.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	97.2	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	50.3	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 62 5 (H252181-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 63 3 (H252181-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 70 3 (H252181-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	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	32.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	21.2	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 75 4 (H252181-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 76 4 (H252181-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTX	<0.300	0.300	04/14/2025	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	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 79 3 (H252181-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 80 3 (H252181-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 81 3 (H252181-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 82 3 (H252181-18)

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	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 85 3 (H252181-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	32.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	25.3	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 88 3 (H252181-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	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	48.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 89 3 (H252181-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	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	32.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 92 3 (H252181-22)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46	
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981	
Total BTX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 93 3 (H252181-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 94 3 (H252181-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEx	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	544	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 95 5 (H252181-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	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	48.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 97 4 (H252181-26)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	16.0	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 98 4 (H252181-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	240	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	185	92.4	200	1.72	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	188	94.0	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 99 4 (H252181-28)

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	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 100 4 (H252181-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 101 4 (H252181-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 102 4 (H252181-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.16	108	2.00	1.46		
Toluene*	<0.050	0.050	04/14/2025	ND	2.19	110	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.13	107	2.00	0.955		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.28	105	6.00	0.981		
Total BTEX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CS 57 A 2 (H252181-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	27.7	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 04 0-2 (H252181-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 05 0-2 (H252181-34)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 06 0-2 (H252181-35)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	29.7	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 07 0-4 (H252181-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 09 0-3 (H252181-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 10 0-3 (H252181-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 77.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 11 0-3 (H252181-39)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	63.2	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	10.4	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 12 0-3 (H252181-40)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 45 5 (H252181-41)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 77 5 (H252181-42)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 78 5 (H252181-43)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 96 6 (H252181-44)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 103 4 (H252181-45)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 104 4 (H252181-46)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 21 0-4 (H252181-47)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEx	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/14/2025	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	04/14/2025	ND	199	99.6	200	2.32	
DRO >C10-C28*	71.4	10.0	04/14/2025	ND	201	100	200	2.12	
EXT DRO >C28-C36	28.8	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 22 0-5 (H252181-48)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	68.3	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	23.9	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 23 0-7 (H252181-49)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	32.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	87.2	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	36.6	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 24 0-7 (H252181-50)

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	04/14/2025	ND	1.88	94.1	2.00	1.51		
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 25 0-7 (H252181-51)

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	04/14/2025	ND	1.88	94.1	2.00	1.51	
Toluene*	<0.050	0.050	04/14/2025	ND	1.98	99.2	2.00	0.895	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	1.96	98.2	2.00	0.828	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.49	108	6.00	0.461	
Total BTEX	<0.300	0.300	04/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 26 0-7 (H252181-52)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTX	<0.300	0.300	04/14/2025	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	32.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 13 0-4 (H252181-53)

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	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTEX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 14 0-4 (H252181-54)

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	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTEX	<0.300	0.300	04/14/2025	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	32.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 15 0-5 (H252181-55)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTX	<0.300	0.300	04/14/2025	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	<16.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 16 0-5 (H252181-56)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 17 0-5 (H252181-57)

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	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTEX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 18 0-5 (H252181-58)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTX	<0.300	0.300	04/14/2025	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	<16.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.8 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 19 0-5 (H252181-59)

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	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTEX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 20 0-5 (H252181-60)

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	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTEX	<0.300	0.300	04/14/2025	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	32.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 27 0-2 (H252181-61)

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	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTEX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	22.5	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 28 0-2 (H252181-62)

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	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTEX	<0.300	0.300	04/14/2025	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	32.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	27.1	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/11/2025
 Reported: 04/16/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 29 0-2 (H252181-63)

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	04/14/2025	ND	2.21	110	2.00	5.84		
Toluene*	<0.050	0.050	04/14/2025	ND	2.06	103	2.00	6.47		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.03	102	2.00	6.20		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.26	104	6.00	5.46		
Total BTEX	<0.300	0.300	04/14/2025	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	16.0	16.0	04/14/2025	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	04/14/2025	ND	205	102	200	1.53	
DRO >C10-C28*	33.2	10.0	04/14/2025	ND	200	100	200	0.573	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "C. D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensco, LLC		Project Manager: Tracy Hillard		P.O. #:		BILL TO		ANALYSIS REQUEST	
Address: 601 N. Marland St. STE 400		City: Midland State: TX Zip: 79701		Company: Ensco, Inc. TGS					
Phone #: 575-737-3906 Email: THillard@ensco.com		Project #: 08158453 Project Owner: VTO		City: State: Zip:					
Project Name: Big Eddy Unit 248H & 249H		Project Location: Eddy County		Phone #:					
Sampler Name: Takisha Guadian				Email:					
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX	
						GROUNDWATER		PRE-SERV.	
						WASTEWATER		SAMPLING	
						SOIL			
						OIL			
						SLUDGE			
						OTHER: ACID/BASE:			
						ICE / COOL OTHER:			
						DATE		TIME	
1528181		ES29		4		4/10/25		1023	
		ES30		4				1027	
		ES48		4				1040	
		ES50		4				1046	
		ES51		7				1048	
		ES52		7				1050	
		ES54		7				1024	
		ES55		5				1026	
		ES62		3				1028	
		ES63						1059	
Relinquished By: [Signature]		Received By: [Signature]		Date: 4/10/25					
Relinquished By: [Signature]		Received By: [Signature]		Date: 4/10/25					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 3.1°C		Corrected Temp. °C 3.4°C		Sample Condition Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		CHECKED BY: (Initials) [Signature]	
FORM-006 R 3.2 10/97/21		† Cardinal cannot accept verbal changes. Please email changes to cdey.kreene@cardinallaboratory.com							

117
1/6/25
BUSH added 2/1/25



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	P.O. #:	ANALYSIS REQUEST											
									Company-DynUSA, Inc.											
Project Manager: Tracy Hillard																				
Address: 901 N. Mainfield St STE 400																				
City: Midland State: TX Zip: 79701																				
Phone #: 575-987-5706 Email: thillard@ensolum.com																				
Project #: DSC15BHS3 Project Owner: KRIS																				
Project Name: Big Eddy Unit 2YBH + 2YGH																				
Project Location: Eddy Contr																				
Sampler Name: TATIANA GARCIA																				
FOR OUTDOOR ONLY								MATRIX	PRESERV.	SAMPLING										
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	BTEX	TPH	Chlorides		
A5A181	F503	3	X	1										4/11/05	NO SAMPLE	Rush added 20				
	F576	4												1102						
	F575	4												1104						
	F576	4												1150						
	F579	3												1158						
	F580	3												1200						
	F581	3												1204						
	F582	3												1204						
	F585	3												1204						
	F588	3												1204						

Page 66 of 71



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Enroclum, LLC
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Gary Hillard
Address: 601 N. Marland St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 575-937-8706 Email: gahill@enroclum.com
Project #: 03C135B453 Project Owner: XTO
Project Name: Big Lady Unit 248H & 249H
Project Location: Edley County
Sampler Name: Tabitha Guadian
P.O. #: 16
Attn: TS
Address:
City: State: Zip:
Phone #:
Email:

DATE		TIME		ANALYSIS REQUEST	
4/16/25	13:31	X	BTEX 8021		
4/16/25	08:14	X	TPH 8015		
4/16/25	08:16	X	Chlorides 4500		
4/16/25	08:20				
4/16/25	09:30				
4/16/25	09:32				
4/16/25	09:34				
4/16/25	09:36				
4/16/25	09:38				

Lab I.D. 4/16/25 Sample I.D. TS102
Sample Depth (feet) 4
(G)RAB OR (C)OMP C
CONTAINERS 1
GROUNDWATER
WASTEWATER
SOIL X
OIL
SLUDGE
OTHER: ACID/BASE X ICE / COOL OTHER:
DATE 4/16/25 TIME 13:31
MATRIX: PREPARED BY: SAMPLING:

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	ANALYSIS REQUEST
30	TS102	4	C	1			X			X			4/16/25	13:31	X
33	CS57A	0-2											4/16/25	08:14	X
34	SW01	0-2											4/16/25	08:16	X
35	SW05	0-2											4/16/25	08:20	
36	SW06	0-2											4/16/25	09:30	
37	SW07	0-4											4/16/25	09:32	
38	SW09	0-3											4/16/25	09:34	
39	SW10	0-3											4/16/25	09:36	
40	SW11	0-3											4/16/25	09:38	
41	SW12	0-3											4/16/25	09:38	

Relinquished By: Tabitha Guadian Date: 4/16/25 Received By: Tabitha Guadian
Relinquished By: Tabitha Guadian Date: 4/16/25 Received By: Tabitha Guadian
Delivered By: Tabitha Guadian Observed Temp: 3.4 C Corrected Temp: 3.4 C
Sampler: UPS - Bats - Other: Sample Condition: Good ☒ Impact ☐ ☐ ☐ ☐ ☐ ☐
CHECKED BY: TS (initials)
REMARKS: GC# 48605000 CC: 1140201001
GC# 48605000 CC: 1140201001
The number of 48605000 Correction Factor 48605000
Standard 48605000 Observed Temp: 3.4 C
Add'l Price:
All Results are emailed. Please provide Email address: hillard@enroclum.com
REMARKS: Paykey/ENROCLUM

† Cardinal cannot accept verbal changes. Please email changes to cefey@enroclum.com



Company Name: Ensolum, LLC

ANALYSIS REQUEST

P.O. #

Company: Oxy USA, Inc.

AIDS:

Address:

City:

State:

Phone #:

Email:

PRICE SEE

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CONCLUSIONS

Page 69 of 71



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: Tracy Alvord

Address: 601 N. Marland St. STE 400

City: Midland State: TX Zip: 79701

Phone #: 575-1371-3704 Email:

Project #: 03C1558453 Project Owner: KTO

Project Location: Big East Unit 248H & 249H

Sample Name: Galy Canyon

Sampler Name: Tabitha Guadian

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Ensolum, LLC

Attn:

Address:

City:

State:

Zip:

Phone #:

Email:

(G)RAB OR (C)OMP

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER

ACID/BASE

ICE / COOL

OTHER

DATE

TIME

DATE

TIME

DATE

TIME

DATE

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† Cardinal cannot accept verbal changes. Please email changes to cathy.kearney@cardinallabsnm.com

Refined By: 4/11/25 Received By: 4/11/25

Relinquished By: 4/11/25 Received By: 4/11/25

Delivered By: (Circle One) 8.41 Observed Temp: 8.41 Corrected Temp: 8.41

Sample: URS - Blue - Other: Sample Condition: Good ☒ Intact ☐ Leaking ☐ No

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

REMARKS: Payroll/ENSURE

GC#1: 4805000 CC: 1140201001

Thermometer ID: 7777777 Calibration Factor: 0.00 ☐ Yes ☐ No

Corrected Temp: 8.41 ☐ Yes ☐ No



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(576) 393-2326 FAX (576) 393-2470

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

[illegible]

7/7



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

April 24, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/21/25 11:35.

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 dark ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/21/2025	Sampling Date:	04/17/2025
Reported:	04/24/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 / 03C1558577	Sample Received By:	Tamara Oldaker
Project Location:	XTO-EDDY CO., NM		

Sample ID: FS 31 4 (H252357-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2025	ND	2.05	102	2.00	4.31	
Toluene*	<0.050	0.050	04/22/2025	ND	2.20	110	2.00	2.12	
Ethylbenzene*	<0.050	0.050	04/22/2025	ND	2.05	103	2.00	3.02	
Total Xylenes*	<0.150	0.150	04/22/2025	ND	6.16	103	6.00	2.77	
Total BTEX	<0.300	0.300	04/22/2025	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	240	16.0	04/22/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2025	ND	221	110	200	2.53	
DRO >C10-C28*	25.3	10.0	04/22/2025	ND	219	109	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/24/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453 / 03C1558577
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 34 2 (H252357-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2025	ND	2.05	102	2.00	4.31		
Toluene*	<0.050	0.050	04/22/2025	ND	2.20	110	2.00	2.12		
Ethylbenzene*	<0.050	0.050	04/22/2025	ND	2.05	103	2.00	3.02		
Total Xylenes*	<0.150	0.150	04/22/2025	ND	6.16	103	6.00	2.77		
Total BTX	<0.300	0.300	04/22/2025	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	32.0	16.0	04/22/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2025	ND	221	110	200	2.53	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	219	109	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/24/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453 / 03C1558577
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 21 0.5-4 (H252357-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2025	ND	2.05	102	2.00	4.31		
Toluene*	<0.050	0.050	04/22/2025	ND	2.20	110	2.00	2.12		
Ethylbenzene*	<0.050	0.050	04/22/2025	ND	2.05	103	2.00	3.02		
Total Xylenes*	<0.150	0.150	04/22/2025	ND	6.16	103	6.00	2.77		
Total BTX	<0.300	0.300	04/22/2025	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	112	16.0	04/22/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2025	ND	221	110	200	2.53	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	219	109	200	8.23	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.7 % 40.6-153

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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 "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

March 10, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/07/25 13:58.

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 dark ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/07/2025	Sampling Date:	03/06/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 01 2.5' (H251370-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	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	192	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 02 2.5' (H251370-02)

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	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTX	<0.300	0.300	03/07/2025	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	240	16.0	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 03 2.5' (H251370-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTEX	<0.300	0.300	03/07/2025	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	336	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/07/2025	Sampling Date:	03/06/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 04 2.5' (H251370-04)

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	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTX	<0.300	0.300	03/07/2025	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	304	16.0	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	10.6	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 05 2' (H251370-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTX	<0.300	0.300	03/07/2025	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	272	16.0	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	204	102	200	0.426	
DRO >C10-C28*	17.7	10.0	03/07/2025	ND	202	101	200	0.0752	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/07/2025	Sampling Date:	03/06/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 08 2' (H251370-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTEX	<0.300	0.300	03/07/2025	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	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	127	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	29.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 124 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 09 2' (H251370-07)

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	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTX	<0.300	0.300	03/07/2025	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	112	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 123 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 10 2' (H251370-08)

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	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTX	<0.300	0.300	03/07/2025	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	64.0	16.0	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 11 2' (H251370-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTEX	<0.300	0.300	03/07/2025	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	80.0	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 121 % 44.4-145

Surrogate: 1-Chlorooctadecane 125 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 12 2' (H251370-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTEX	<0.300	0.300	03/07/2025	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	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/07/2025	Sampling Date:	03/06/2025
Reported:	03/10/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453 & 03C1558587	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.62085-103.83132		

Sample ID: FS 13 2' (H251370-11)

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	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTEX	<0.300	0.300	03/07/2025	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	144	16.0	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	113	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	13.2	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 14 2' (H251370-12)

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	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTX	<0.300	0.300	03/07/2025	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	176	16.0	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	26.9	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/07/2025
Reported: 03/10/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558587
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 15 2' (H251370-13)

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	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTEX	<0.300	0.300	03/07/2025	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	80.0	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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: Tracy Hillard Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 575-937-3906 Fax #: Project #: 03C1558453 & 03C1558587 Project Owner: XTO Project Name: Big Eddy Unit 248 H & 249H Project Location: 32.62085, -103.83132 Sampler Name: Jesse Dorman				P.O. #: Company: XTO Energy Inc. Attn: Colton Brown Address: 3104 E. Green St. City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:			
FOR LAB USE ONLY		Matrix <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER:		Preserv <input checked="" type="checkbox"/> ACID/BASE <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER:			
Lab I.D. 1105320 12 13		Sample I.D. 5313 5314 5315		Sample Depth (feet) 2'			
Sample Depth (feet) 2'		(G)RAB OR (C)OMP. C		# CONTAINERS 4			
DATE 3/6/25		TIME 1337 1330		BTEX TPH CHLORIDE			
Requisitioned By: [Signature]		Date: 3/7/25 Time: 12:34		Received By: [Signature]			
Delivered By: (Circle One) UPS		Observed Temp. °C 35.0		Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			
Corrected Temp. °C 36.0		CHECKED BY: [Signature]		REMARKS: Cool Center: 1140201001 Incident ID: NAPP2418043567, NAPP2432147637, NAPP2432531235, NAPP2502042071 All Results are emailed. Please provide Email address: thillard@ensolum.com BeBell@ensolum.com TMorrissey@ensolum.com kthomason@ensolum.com			



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

May 01, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 04/25/25 12:52.

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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/25/2025	Sampling Date:	04/25/2025
Reported:	05/01/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 248H & 249H	Sampling Condition:	Cool & Intact
Project Number:	03C1558453	Sample Received By:	Tamara Oldaker
Project Location:	XTO-EDDY CO., NM		

Sample ID: FS 45 6' (H252510-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEX	<0.300	0.300	04/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/25/2025
 Reported: 05/01/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 55 7.5' (H252510-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTX	<0.300	0.300	04/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/28/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/25/2025
 Reported: 05/01/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 59 4-7.5' (H252510-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEX	<0.300	0.300	04/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	92.3	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	10.4	10.0	04/28/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/25/2025
 Reported: 05/01/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 60 4-7.5' (H252510-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEx	<0.300	0.300	04/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/28/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.8 % 40.6-153

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/25/2025
 Reported: 05/01/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 61 4-7.5' (H252510-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00		
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494		
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679		
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716		
Total BTEX	<0.300	0.300	04/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/28/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/25/2025
 Reported: 05/01/2025
 Project Name: BIG EDDY UNIT 248H & 249H
 Project Number: 03C1558453
 Project Location: XTO-EDDY CO., NM

Sampling Date: 04/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 23 0-7' (H252510-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2025	ND	2.19	110	2.00	1.00	
Toluene*	<0.050	0.050	04/29/2025	ND	2.17	108	2.00	0.494	
Ethylbenzene*	<0.050	0.050	04/29/2025	ND	2.11	106	2.00	0.679	
Total Xylenes*	<0.150	0.150	04/29/2025	ND	6.19	103	6.00	0.716	
Total BTEx	<0.300	0.300	04/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/28/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	200	99.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	202	101	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

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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", 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 Project Manager: Tracy Hillard Address: 601 N Marientfeld St Ste 400 City: Midland State: TX Zip: 79701 Phone #: 575-937-3706 Fax #: Project #: 03CIS58453 Project Owner: Project Name: Big Eddy Unit 218H + 249H Project Location: Eddy County Sampler Name: Takisha Guadian				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. H353570		Sample I.D. DEPTH(A)		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		MATRIX PRESERV SAMPLING		DATE TIME		BTEX TPH Chlorides 4500	
FS45 FS55 FS59 FS40 FS61 SW23		6' 7.5' 4-7.5' 4-7.5' 4-7.5' 0-7'		C1 C1 C1 C1 C1 C1		X X X X X X		4/25/25 1036 1038 1040 1042 1044 1046		X X X X X X X	
HFE		4/25/25		7/25							

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Relinquished By: [Signature] Date: 4/25/25 Time: 1:55a Received By: [Signature] Date: Time:	Delivered By: (Circle One) UPS - Bus - Other: Observed Temp. °C: 4/4 Corrected Temp. °C: 4/7 Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: [Signature] Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor +0.3°C Bacteria (only) Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C: Corrected Temp. °C:
---	--

REMARKS:
 Hillard@ensolum.com
 CC: 114020100
 GFCH: 418605000

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



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

March 14, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H & 249H

Enclosed are the results of analyses for samples received by the laboratory on 03/13/25 13:05.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/13/2025
Reported: 03/14/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/11/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 3' (H251493-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2025	ND	2.26	113	2.00	4.63		
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27		
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55		
Total BTEX	<0.300	0.300	03/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/13/2025
Reported: 03/14/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/11/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 13 3' (H251493-02)

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	03/13/2025	ND	2.26	113	2.00	4.63		
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27		
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55		
Total BTX	<0.300	0.300	03/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/13/2025
Reported: 03/14/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/11/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 3' (H251493-03)

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	03/13/2025	ND	2.26	113	2.00	4.63		
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27		
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55		
Total BTX	<0.300	0.300	03/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/13/2025
Reported: 03/14/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/11/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 33 2' (H251493-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2025	ND	2.26	113	2.00	4.63		
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27		
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55		
Total BTEx	<0.300	0.300	03/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/13/2025
Reported: 03/14/2025
Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453 & 03C1558577
Project Location: XTO 32.62085-103.83132

Sampling Date: 03/11/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 34 2' (H251493-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2025	ND	2.26	113	2.00	4.63		
Toluene*	<0.050	0.050	03/13/2025	ND	2.24	112	2.00	4.27		
Ethylbenzene*	<0.050	0.050	03/13/2025	ND	2.14	107	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/13/2025	ND	6.28	105	6.00	4.55		
Total BTEX	<0.300	0.300	03/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/14/2025	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	03/13/2025	ND	213	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	03/13/2025	ND	193	96.6	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	03/13/2025	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Notes and Definitions

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

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

Caley D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ENSOLUM, LLC Project Manager: Tracy Hillard Address: 3122 National Parks Hwy City: Carlsbad Phone #: 575-937-3906 State: NM Zip: 88220 Fax #: Project #: 03C1558453 & 03C1558577 Project Owner: XTO Project Name: Big Eddy Unit 248 H & 249H Project Location: 32.62085, -103.83132 Sampler Name: Jesse Dorman		BILL TO P.O. #: Company: XTO Energy Inc. Attn: Colton Brown Address: 3104 E. Green St. City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:		ANALYSIS REQUEST			
Lab I.D. H25N493	Sample I.D. 1 2 3 4 5 f508 f513 f526 f533 f534	Sample Depth (feet) 3' 2' 2' 2' 2'	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	MATRIX ACID/BASE: ICE / COOL OTHER:	PRESERV DATE TIME	SAMPLING BTEX TPH CHLORIDE	
Relinquished By: [Signature] Time: 3:25 Date: 5/30/25 Received By: [Signature]		Verbal Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Remarks:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Incident ID: NAPP2418043567, NAPP2432417637, NAPP2432531235, NAPP2502042071 Cost Center: 1140201001 Thermal ID: #140403 Thermometer ID: #1111 Standard: <input type="checkbox"/> Stand: <input type="checkbox"/> Push: <input type="checkbox"/> Bacteria (only): <input type="checkbox"/> Sample Condition: <input type="checkbox"/> Corrected Temp. °C: 0.4					

FORM 006 R 1.2 1/00/21

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

From: [Tacoma Morrissey](#)
To: [Wells, Shelly, EMNRD](#)
Subject: [EXTERNAL] Re: BIG EDDY UNIT 248H Questions
Date: Monday, May 19, 2025 9:24:43 PM
Attachments: [Outlook-x4a1ngup.png](#)
[Outlook-srae3svz.png](#)
[Outlook-z1t5mkk4.png](#)
[Outlook-kxygfmh5](#)

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

Hi Shelly,

I appreciate you reaching out about these questions. The photos all include coordinates and a brief description, though in the future we will provide additional detail. Perhaps there is an issue during upload that makes the photos unclear?

Attached are photos showing the area of FS59 through FS61. Due to the sloping of the excavation, the sidewall samples were collected from the surface to 4 feet along the slope and the floor samples were collected from 4 feet to the bottom of the excavation, approximately 7.5 feet bgs.

Regarding sample FS34, we had two different field staff respond to the Site and collect confirmation soil samples between 3/11 and 3/13. There was a miscommunication on what samples were collected on 3/11, leading to an additional sample in the same location and name collected on 3/13/2025. Field screenings indicated there were likely no contaminants of concern, so the sample was submitted to the lab on the same COC as several other confirmation soil samples. When laboratory analytical results returned the floor sample was failing. As such a third sample was collected following a 1 in scrape of the area. The source of the contamination noted in the 3/13/2025 sample was not seen in subsequent sampling. No staining, odor, or other indications of contamination were noted in the vicinity of FS34 and field screening readings for all three samples collected for FS34 did not indicate any impacted soil. Because the soil samples for FS34 were included with others on the COC we reported all the results. Sincerest apologies for the confusion.

Please let me know if you have further questions or if I can provide additional information. Feel free to call to discuss if that is easier, though I will be traveling tomorrow.

Hope you have a good week!



Tacoma Morrissey
Associate Principal
337-257-8307
Ensolum, LLC
in f X

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Monday, May 19, 2025 10:08 AM

To: Tacoma Morrissey <tmorrissey@ensolum.com>

Subject: BIG EDDY UNIT 248H Questions

[**EXTERNAL EMAIL**]

Good morning Tacoma,

I am reviewing the closure reports for the four incidents for BIG EDDY UNIT 248H and have questions. As the photos are not easy to see and are uncaptioned, can you please provide photos for me that show the areas where excavation went from 4 ft to 7.5 ft depth (FS 59, FS 60, and FS 61)? Also can you please explain what happened at FS34? It was collected on 3/11/25 and was below reclamation limits, then recollected thereafter and failed and then recollected at the same depth and below reclamation limits. I look forward to hearing what you have to say.

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

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

(505)469-7520 Shelly.Wells@emnrd.nm.gov

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



APPENDIX C
February 4, 2025,
Remediation Work Plan



February 4, 2025

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

**Re: Remediation Work Plan
Big Eddy Unit 248H and 249H
Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, &
nAPP2502042071
API: 30-015-40714 & 30-015-40715
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the assessment and delineation activities completed to date and propose a plan to address impacted soil identified at the Big Eddy Unit 248H and Big Eddy Unit 249H (Site), where a total of four releases occurred on the same pad. The purpose of the assessment and delineation activities was to assess the lateral and vertical extent of impacted soil resulting from multiple releases of produced water and crude oil at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent areas.

SITE DESCRIPTION AND RELEASE BACKGROUND

All releases occurred in Eddy County, New Mexico (32.62087°, -103.83145°), at the Big Eddy Unit 248H and Big Eddy Unit 249H wellhead locations. Release extent areas located west of the wellheads are located in Unit A, Section 35, Township 19 South, Range 31 East, and are associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). Release extent areas located east of the wellheads are located in Unit D, Section 36, Township 19 South, and Range 31 on State Land managed by New Mexico State Land Office (SLO) under Lease ID V0-6323-0003.

Incident Number: nAPP2418043567

On June 21, 2024, the packing on the wellhead stuffing box failed, resulting in the release of approximately 5 barrels (bbls) of crude oil and 9 bbls of produced water onto the surface of the pad and lightly over-spraying the northwest area of the pad and surrounding pasture following the dominant wind direction that day. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number nAPP2418043567.

On September 20, 2024, XTO submitted a Remediation Work Plan (*September 2024 Work Plan*) to the NMOCD describing Site assessment and delineation activities completed. The *September 2024 Work Plan* proposed the following remediation activities:

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H and 249H

- Excavation of an estimated 1,500 cubic yards of total petroleum hydrocarbon (TPH)- and chloride-impacted soil to be removed;
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseeding of the on-pad area will occur during pad abandonment; and
- The area of investigation will continue to be monitored, and photo documentation of the vegetation will be included in the final *Closure Report*.

On November 6, 2024, NMOCD approved the *September 2024 Work Plan* with the following conditions:

All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area will need confirmation floor/sidewall samples representing no more than 200 ft². All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Confirmation samples will need to be conducted at surface and at 0.5 feet in the "Area of Investigation" to ensure that contaminants didn't get carried/deposited in this area. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule.

On January 16, 2025, and after Site discussions with the NMOCD, XTO requested a sampling variance for the "area of investigation" confirmation floor soil sample size to be 1,000 square feet. The NMOCD approved the sampling variance the same day.

Incident Numbers: nAPP2432147637, nAPP2432531235, and nAPP2502042071

On November 16, 2024, the packing on the stuffing box of the Big Eddy Unit 249H well failed, resulting in the release of approximately 10 bbls of crude oil onto the surface of the well pad. No fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 16, 2024. The release was assigned Incident Number nAPP2432147637.

On November 19, 2024, an equipment failure at the Big Eddy Unit 248H wellhead resulted in the release of approximately 22 bbls of crude oil and 1 bbls of produced water onto the surface of the well pad. Four bbls of fluids were recovered. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2432531235.

On January 17, 2025, an equipment failure at the Big Eddy Unit 249H wellhead resulted in the release of approximately 33 bbls of crude oil and 29 bbls of produced water onto the surface of the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 35 bbls of fluids were recovered. Furthermore, approximately 73 thousand cubic feet (Mcf) of natural gas were vented during the release. XTO reported the release to the NMOCD and submitted a NOR and C-141 on November 20, 2024. The release was assigned Incident Number nAPP2502042071.

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.

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H and 249H

Based on the results of the Site Characterization, presented in the approved *September 2024 Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

Since the release occurred on the well pad in the area governed by SLO, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with these releases.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site. A review of the Bureau of Land Management (BLM) New Mexico Plant Wildlife Habitat maps indicated potential habitats for Dunes Sage Brush Lizard and Lesser Prairie Chicken near the Site. Threatened and endangered species are potentially present in the area surrounding the Site; however, no native vegetation outside of the well pad extent will be disturbed during remediation activities.
 - From March 1st through June 15th, no remediation activities will occur between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.
- No sensitive receptors were identified near the Site as determined by the Site Characterization. The strictest Table I Closure Criteria is being applied to the Site due to a lack of recent depth to groundwater within 0.5 miles.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Wink loamy fine sand. The Wink loamy fine sand is not considered a sensitive soil per the SLO guidelines. The release occurred on the caliche surface of the well pad limiting contact with potentially sensitive native soil.

SITE ASSESSMENT ACTIVITIES

On November 20, 2024 and January 17, 2025, Ensolum personnel conducted Site assessment activities to evaluate the three additional releases based on information provided on the C-141 and visual observations. Ensolum personnel mapped the four releases utilizing a handheld Global Positioning System (GPS) unit. It was confirmed that the November 2024 and January 2025 releases overlapped the proposed area of excavation presented in the *September 2024 Work Plan*, but did not overlap the area of investigation. All release extent areas are depicted on Figure 1. Both November 2024 release extents covered the same area and are presented on Figure 1 as a single release extent.

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H and 249H

ADDITIONAL DELINEATION SOIL SAMPLING ACTIVITIES

On January 31, 2025, Ensolum conducted delineation activities. Five potholes (PH01 through PH05) were advanced within the release extent via backhoe to a maximum depth of 9 feet below ground surface (bgs). Discrete soil samples were collected from each delineation pothole at depths ranging from 0.5 feet to 9 feet bgs. Due to open excavations from ongoing remediation activities conducted for Incident Number nAPP2418043567, delineation pothole PH01 was advanced in the open excavation where discrete soil sampling started at 5 feet bgs and delineation pothole PH04 began at 1-foot bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix A. Delineation pothole locations are depicted on Figure 1. Photographic documentation was completed during all Site visits and is presented on a Photographic Log included in Appendix B.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples collected in PH01, collected on January 31, 2025, indicated all COCs were in compliance with Closure Criteria. Laboratory analytical results for soil sample PH02, collected at 1-foot bgs on January 31, 2025, contained elevated TPH concentrations that were within range of the concentrations detected from a sample collected from the same location in 2024. Laboratory analytical results for pothole PH03 indicated chloride concentrations exceeded Closure Criteria at 1-foot bgs but were in compliance with Closure Criteria at 4 feet bgs, successfully defining the vertical extent of that release area. Delineation soil sample PH04, collected at 4 feet bgs, indicated TPH and chloride concentrations exceeded Closure Criteria. The soil sample collected from PH05 at 1-foot bgs contained elevated BTEX, TPH, and chloride concentrations. The sample collected one foot deeper (PH05 at 2 feet bgs) did not exceed Closure Criteria for VOCs, but remained elevated for chloride. All other delineation soil samples collected on January 31, 2025, indicated COC concentrations were in compliance with Closure Criteria. All laboratory analytical results are summarized on Table 1. This includes all soil samples collected before January 31, 2025, which are presented in the *September 2024 Work Plan* included in Appendix C. All laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicated soil containing elevated BTEX, TPH, and chloride concentrations exists across an approximate 34,375 square foot area in the release extents on pad and extends to depths ranging from 0.5 feet to 4 feet bgs. As such, XTO proposes to complete the following remediation activities:

- Excavation of impacted soil will proceed vertically and laterally until confirmation floor and sidewall soil samples confirm all COC concentrations are compliant with the Closure Criteria. The proposed excavation extent is depicted in Figure 2;

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H and 249H

- An estimated 3,800 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal;
- As stated in the approved sampling variance for Incident Number nAPP2418043567, the “area of investigation” will be composite sampled in a 1,000 square-foot sampling frequency. The initial proposed excavation for Incident Number nAPP2418043567 will be sampled in a 200 square-foot sampling frequency. The approved sampling variance email is provided in Appendix E;
- Due to the size of the release extent for the November 2024 and January 2025 releases, XTO requests a variance for the frequency of confirmation soil samples. XTO proposes 5-point composite soil samples to be collected at a sampling frequency of 400 square feet along the excavation floor, outside of the June 21, 2024 release extent area, and a sampling frequency of 200 square feet along all excavation sidewalls. The proposed sampling frequency would reduce the total number of samples from approximately 395 confirmation soil samples (200 square feet) to approximately 339 confirmation soil samples. The soil samples will be handled and submitted for the same COCs described above. The NMOCD approved sampling grid is presented on Figure 2 and the newly proposed sampling grid is presented on Figure 3; and,
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseedling of the on-pad area will occur during pad abandonment.

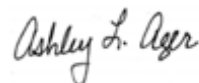
XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

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

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



Ashley Ager, PG, MS
Principal

cc: Ashley McAfee, XTO
Kaylan Dirkx, XTO
New Mexico State Land Office
Bureau of Land Management

Appendices:

Figure 1	Delineation Soil Sample Locations
Figure 2	Proposed Excavation Extent - 200 Square Foot Frequency
Figure 3	Proposed Excavation Extent - 400 Square Foot Frequency
Table 1	Soil Sample Analytical Results
Appendix A	Lithologic / Soil Sampling Logs
Appendix B	Photographic Log
Appendix C	<i>Remediation Work Plan</i> ; dated September 20, 2024

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H and 249H

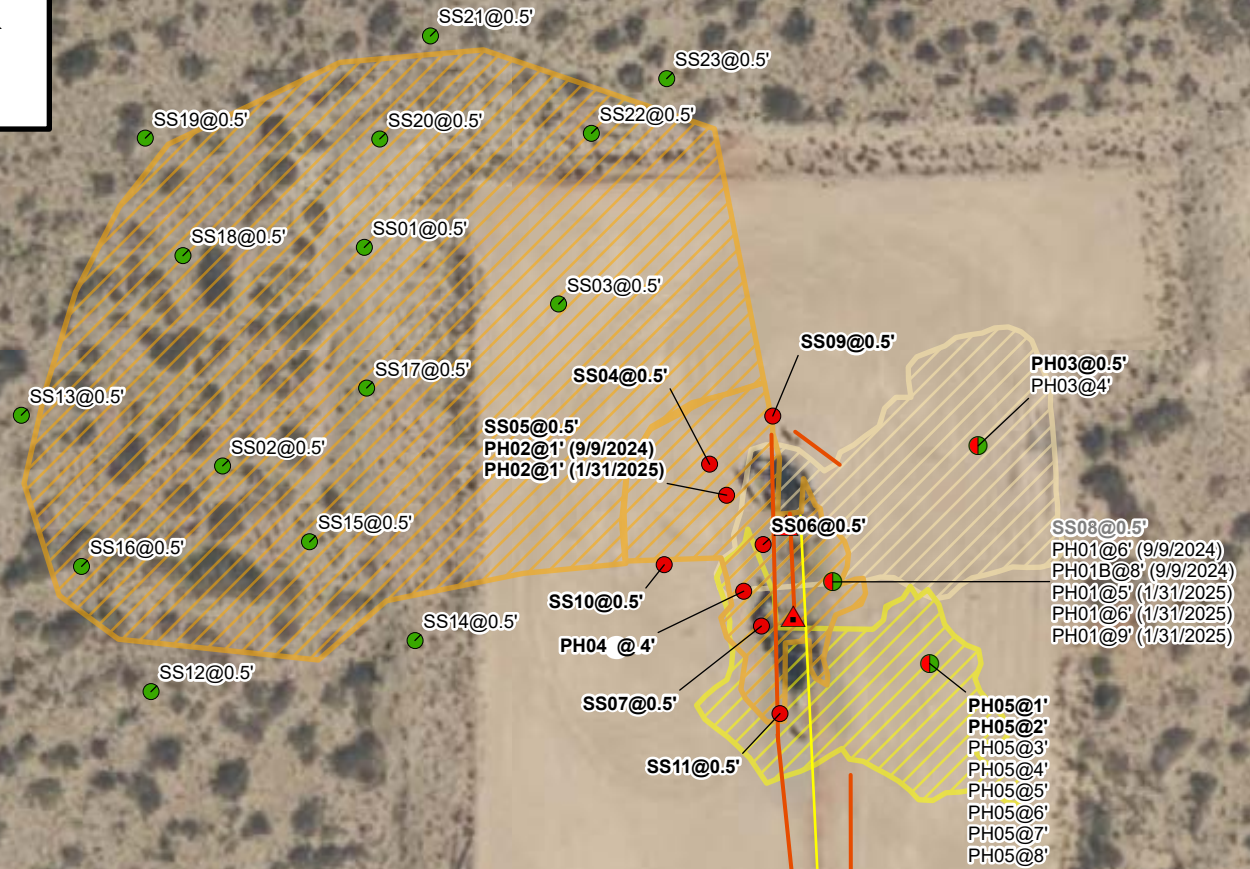
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E NMOCD Correspondence



FIGURES

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- ● Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Electric Utility Line
- Oil and Gas Utility Line
- Release Extent - nAPP2418043567
- Release Extent - nAPP24321476375 & nAPP2432531235
- Release Extent - nAPP2502042071



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

0 25 50 100 150 200
 Feet

Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

XTO Energy, Inc
 Big Eddy Unit 248H and 249H
 Incident Numbers: nAPP2418043567,
 nAPP2432147637, nAPP2432531235, and nAPP2502042071
 Unit A, Section 35, T 19S, R 31E
 Eddy County, New Mexico

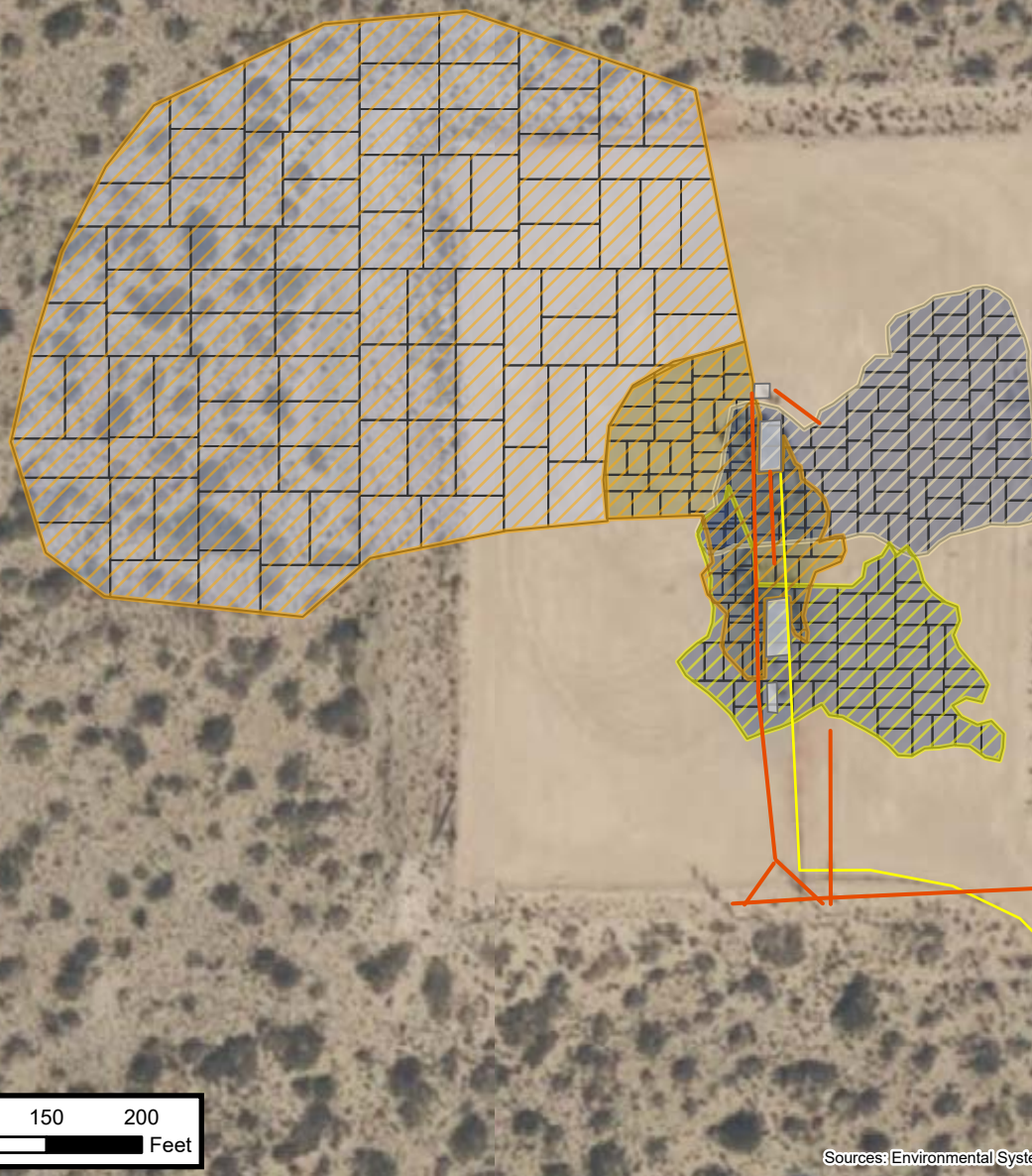
FIGURE

1



Legend

- Electric Utility Line
- Oil and Gas Utility Line
- Release Extent - nAPP2418043567
- Release Extent - nAPP24321476375 & nAPP2432531235
- Release Extent - nAPP2502042071
- Production Equipment
- Sample Grid 1000 Sqft
- Sample Grid 200 Sqft
- Sample Grid 200 Sqft



Sources: Environmental Systems Research Institute (ESRI)

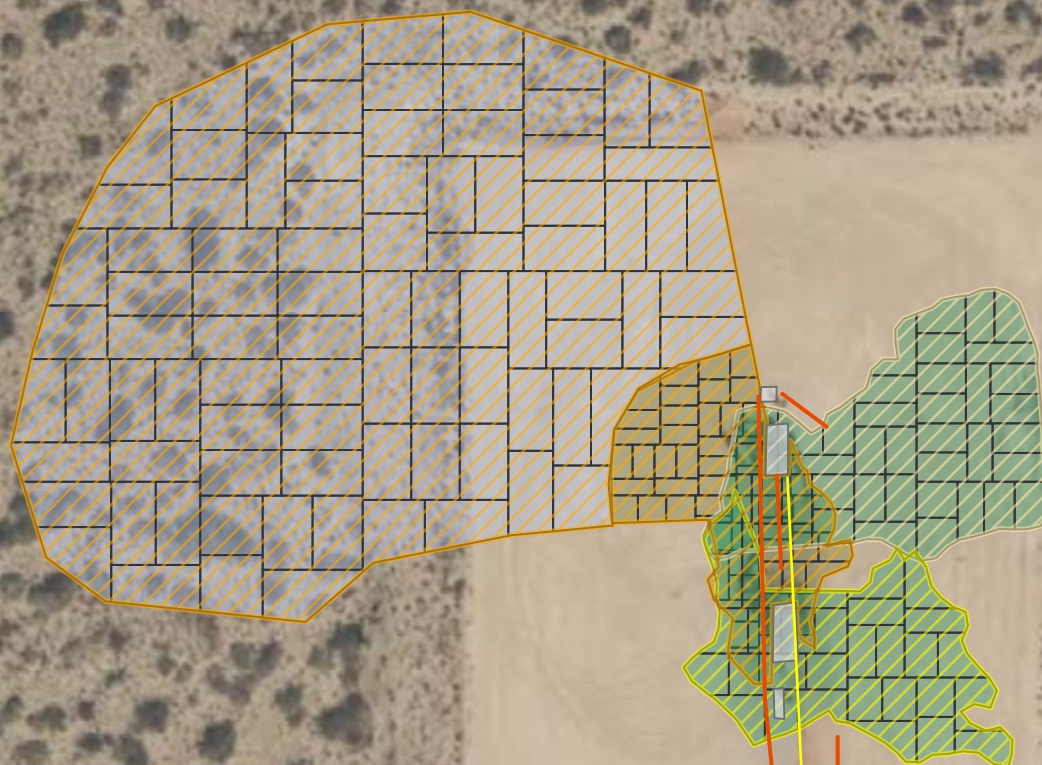
**Proposed Excavation Extent - 200 square foot frequency**

XTO Energy, Inc
Big Eddy Unit 248H and 249H
Incident Numbers: nAPP2418043567,
nAPP2432147637, nAPP2432531235, and nAPP2502042071
Unit A, Section 35, T 19S, R 31E
Eddy County, New Mexico

FIGURE
2

Legend

- Electric Utility Line
- Oil and Gas Utility Line
- Production Equipment
- Release Extent - nAPP2418043567
- Release Extent - nAPP24321476375 & nAPP2432531235
- Release Extent - nAPP2502042071
- Sample Grid 1000 Sqft
- Sample Grid 200 Sqft
- Sample Grid 400 Sqft



0 25 50 100 150 200
Feet

Sources: Environmental Systems Research Institute (ESRI)



Proposed Excavation Extent - 400 square foot frequency

XTO Energy, Inc
Big Eddy Unit 248H and 249H
Incident Numbers: nAPP2418043567,
nAPP2432147637, nAPP2432531235, and nAPP2502042071
Unit A, Section 35, T 19S, R 31E
Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Big Eddy Unit 248H and 249H
 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										
SS01	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS04	07/29/2024	0.5	<0.050	<0.300	<10.0	182	55.3	182	237	560
SS05	07/29/2024	0.5	<0.050	<0.300	<10.0	1,870	465	1,870	2,335	1,650
PH02	09/09/2024	1	<0.050	<0.300	<10.0	87.4	13.3	87.4	101	192
PH02	01/31/2025	1	<0.050	<0.300	<10.0	135	54.7	135	190	176
SS06	07/29/2024	0.5	<0.050	5.16	75.7	2,710	613	2,786	3,399	1,250
SS07	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
SS08	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,600
PH01	09/09/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
PH01B	09/09/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH01	01/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH01	01/31/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
PH01	01/31/2025	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS09	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SS10	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,570
SS11	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SS12	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS13	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS15	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS16	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS17	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS18	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS19	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 248H and 249H
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
SS20	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS21	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS22	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS23	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH03	01/31/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,040
PH03	01/31/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH04	01/31/2025	4	<0.050	<0.300	<10.0	179	41.8	179	221	1,010
PH05	01/31/2025	1	1.15	53.1	419	1,550	277	1,969	2,246	2,480
PH05	01/31/2025	2	<0.050	0.474	<10.0	20.7	<10.0	20.7	20.7	640
PH05	01/31/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH05	01/31/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	01/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	01/31/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	01/31/2025	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH05	01/31/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon


NMAC: New Mexico Administrative Code


Grey text indicates soil sample removed during excavation activities





APPENDIX A


Lithologic Soil Sampling Logs


 ENSOLUM		Sample Name: PH01		Date: 9/9/2024				
		Site Name: Big Eddy Unit 248H						
		Incident Number: NAPP2418043567						
		Job Number: 03C1558453						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.620931, -103.831294			Logged By: JD		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 8'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	12,611	0.0	N	SS08	0.5	0	CCHE	(0-8') CALICHE, tan, fine grained, some sand, well sorted, no odor
						1		
						2		
						3		
						4		Soil excavated to 4' bgs between 9/4/24 and 9/9/2024
						5		
D	929.6	0.0		PH01	6	6		
D	1,495	0.0				7		
D	<162	0.0		PH01A	8	8		
						Total Depth @ 8 feet bgs		


 ENSOLUM		Sample Name: PH01		Date: 1/31/2025				
		Site Name: Big Eddy Unit 248H & 249H						
		Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.620930, -103.831295			Logged By: ER		Method: BackHoe			
			Hole Diameter: 3'		Total Depth: 9'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		(0-5') Open excavation
						1		
						2		
						3		
						4		
D	274	0.4	Y	PH01	5	5	CCHE	(0-9') CALICHE, tan-gray, coarse - fine grained, non-cohesive
D	162	0.4	Y	PH01	6	6		
D	<162	0.7	Y			7		
D	<162	0.6	Y			8		
D	<162	0.5	Y	PH01	9	9	SP-SC	(@9') SAND, brown, fine to medium grained sand w/silt
Total Depth @ 9 feet bgs								

		Sample Name: PH02		Date: 9/9/2024				
		Site Name: Big Eddy Unit 248H						
		Incident Number: NAPP2418043567						
		Job Number: 03C1558453						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.621056, -103.831474			Logged By: JD		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,609	24.8	Y	SS05	0.5	0	CCHE	(0-1') CALICHE, tan, fine grained, some sand, well sorted, odor
D	201.6	0.0	N	PH02	1	1		(@1') no odor
						Total Depth @ 1-foot bgs		

 ENSOLUM		Sample Name: PH02		Date: 1/31/2025				
		Site Name: Big Eddy Unit 248H & 249H						
		Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.621056, -103.831472			Logged By: ER		Method: BackHoe			
			Hole Diameter: 3'		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<162	0.2	Y	PH02	1	0 1	CCHE	(0-1') CALICHE, tan, fine to coarse grained, w/ silt
						Total Depth @ 1-foot bgs		

 ENSOLUM		Sample Name: PH03		Date: 1/31/2025				
		Site Name: Big Eddy Unit 248H & 249H						
		Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071						
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: ER		Method: BackHoe				
Coordinates: 32.621123, -103.831045		Hole Diameter: 3'		Total Depth: 4'				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	4356	0.2	Y	PH03	1	0	CCHE	(0-4') CALICHE, grey-brown, fine to coarse grained, non-cohesive, w/silt
D	1540	0.1	Y			1		
D	1713	0.0	Y			2		
D	<162	0.5	Y	PH03	4	3		
						4		
Total depth @ 4 feet bgs								

 ENSOLUM		Sample Name: PH04		Date: 1/31/2025				
		Site Name: Big Eddy Unit 248H & 249H						
		Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.620918, -103.831444			Logged By: ER		Method: BackHoe			
			Hole Diameter: 3'		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		(0-1') Open excavation
						1		
						2		
						3		
D	464	0.4	Y	PH04	4	4	CCHE	(@4') CALICHE, tan-grey, fine to medium grained, w/ silt, non-cohesive
						Total Depth @ 4 feet bgs		

 ENSOLUM		Sample Name: PH05		Date: 1/31/2025				
		Site Name: Big Eddy Unit 248H & 249H						
		Incident Numbers: nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.620811, -103.831131			Logged By: ER		Method: BackHoe			
			Hole Diameter: 3'		Total Depth: 8'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-8') CALICHE, tan-grey, fine to medium grained, w/ silt, non-cohesive
D		554.6	Y	PH05	1	1		
D		70.2	Y	PH05	2	2		
D		32.3	Y	PH05	3	3		
D		35.9	Y	PH05	4	4		
D		27.7	Y	PH05	5	5		
D	<162	5.8	Y	PH05	6	6		
D		10.7	Y	PH05	7	7		
D	<162	4.6	Y	PH05	8	8		
Total Depth @ 8 feet bgs								



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc

Big Eddy Unit 248H and 249H
nAPP2418043567, nAPP2432147637,
nAPP2432531235, & nAPP2502042071



Photograph: 1 Date: 11/20/2024
Description: Soil staining - nAPP2432147637, nAPP2432531235
View: North

Photograph: 2 Date: 1/17/2025
Description: Soil staining - nAPP2502042071
View: North



Photograph: 3 Date: 1/31/2025
Description: Delineation activities
View: West

Photograph: 4 Date: 1/31/2025
Description: Delineation activities
View: Northwest



APPENDIX C
Remediation Work Plan;
dated September 20, 2024



September 19, 2024

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

**Re: Remediation Work Plan
Big Eddy Unit 248H
Incident Number NAPP2418043567
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment activities completed to date and propose a plan to address impacted soil identified at the Big Eddy Unit 248H (Site). The purpose of the site assessment activities was to assess the lateral and vertical extent of impacted soil resulting from a release of produced water and crude oil at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The release was initially reported at the incorrect location but following a review of initial release records, internal documents, and personnel communications, it was confirmed the release is located on the Big Eddy Unit 248H well pad. The majority of the release is located in Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). However, a portion of the release occurred on State Land managed by New Mexico State Land Office (SLO) in Unit D, Section 36, Township 19 South, and Range 31 East.

On June 21, 2024, the packing on the stuffing box of the well failed, resulting in the release of approximately 5 barrels (bbls) of crude oil and 9 bbls of produced water onto the surface of the pad and lightly over-spraying the northwest area of the pad and surrounding pasture due the dominant wind direction that day. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number NAPP2418043567.

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 estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H

groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-641, located approximately 0.4 miles southeast of the Site. The depth to groundwater in the well, 130 feet bgs, was most recently measured on February 23, 1982. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a lakebed approximately 12,400 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the nearest groundwater data exceeding 25 years in age, and no other data available within 0.5 miles as preferred by the NMOCD, the following 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

CULTURAL PROPERTIES

Since the release remained on pad in the area governed by SLO, the Site is exempt from the Cultural Properties Protection (CPP) Rule. As such no additional cultural resource surveys were completed in connection with this release.

SITE ASSESSMENT ACTIVITIES

On July 29, 2024, Ensolum personnel conducted a Site assessment to evaluate the release based on information provided on the C-141 and visual observations. Ensolum personnel identified the release extent, approximately 10,700 square feet, based on visual observations of stained soil. Ensolum personnel also identified an approximately 88,300 square-foot area in the northwest corner of the pad and pasture where high winds had carried a *de minimus* volume of fluid spray from the release. This area is considered an area of investigation. Ensolum personnel collected thirteen delineation soil samples (SS01 through SS13) within and around the release extent and area of investigation. The delineation soil samples were collected at a depth of 0.5 feet bgs to determine the presence or absence of impacted soil. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent, area of investigation, and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500. Based on field screenings and laboratory analytical results, additional delineation of the release extent and further assessment of the area of investigation in the northwest corner of the pad and pasture was warranted.

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H

DELINEATION SOIL SAMPLING ACTIVITIES

On September 9, 2024, Ensolum returned to the Site to remove gross impacts and conduct additional delineation. Saturated soil was removed around the wellhead, but field screening results for VOCs and chloride in excavation soil samples indicated additional excavation was warranted. As such, two potholes (PH01 and PH02) were advanced within the release extent via a backhoe. Pothole PH01 was advanced within the excavation area near SS08 to a depth of 8 feet bgs. Pothole PH02 was advanced to 1-foot bgs and was located in the vicinity of SS05. Discrete delineation soil samples were collected from PH01 at 6 feet and 8 feet bgs and from PH02 at 1-foot bgs. Soil from the potholes was field screened, handled, and analyzed for the same COCs as described above. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. Both delineation pothole locations are depicted on Figure 2. Photographic documentation was completed during all Site visits and is presented on a Photographic Log included in Appendix C.

On September 17, 2024, in order to further assess the area of investigation, Ensolum personnel collected ten additional delineation soil samples (SS14 through SS23) at a depth of 0.5 feet bgs within and around the area of investigation. The delineation soil samples were handled and analyzed following the same procedures described above.

Laboratory analytical results for delineation soil samples collected at 0.5 feet bgs within the release extent indicated TPH and chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for the terminal depths of PH01 and PH02 indicated that all COCs were compliant with Closure Criteria and successfully defined the vertical extent of impacted soil. Laboratory analytical results for delineation soil samples collected at 0.5 feet bgs within and around the area of investigation in the northwest corner of the pad and surrounding pasture indicated all COCs were compliant with the Closure Criteria and confirmed the absence of impacted soil in that area. All laboratory analytical results are summarized on Table 1 and laboratory analytical reports are included in Appendix D.

VEGETATION SURVEY ACTIVITIES

On September 13, 2024, Ensolum personnel conducted a vegetation survey utilizing the line-point intercept (LPI) method to assess for the presence or absence of any biological indications of stress to the vegetation in the area of investigation. A staff biologist completed 1 LPI transect within the area of investigation and 1 LPI transect to the north in an undisturbed area. Each transect was 100 feet in length and mapped utilizing a handheld GPS unit as depicted on Figure 3. The staff biologist noted each time vegetation intersected the transect and recorded the length of the vegetation along the transect. The transects were completed along the same slope and direction. The staff biologist also recorded the observed health of the plant. Some stressed vegetation, that was indicative of heat stress and natural conditions, was noted throughout the area of investigation and surrounding pasture area. No indications of stress from the potential overspray were observed.

The LPI transect completed in an undisturbed area to the north, LPI-1, indicated a vegetation coverage of 27 percent (%). The LPI transect LPI-2 was completed in the area of investigation and indicated vegetation coverage of 26%. These observations suggest there have been no significant impacts to the vegetation in the area of investigation. The vegetation survey was conducted over 2 months after the release date, during which time any impacts would have become clearly visible. In addition, all laboratory analytical results for delineation soil samples collected in the area of investigation confirmed the absence of impacted soil in the area. Photographic documentation of the vegetation survey is presented in a Photographic Log provided in Appendix C.

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H

PROPOSED REMEDIATION WORK PLAN

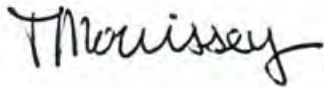
The delineation soil sampling results indicate soil containing elevated TPH and chloride concentrations exists across an approximate 10,700 square foot area in the release extent on pad and extends to depths ranging from 0.5 feet to 8 feet bgs. As such, XTO proposes to complete the following remediation activities:

- Excavation of TPH and chloride impacted soil has begun and will proceed vertically and laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria. The proposed excavation extent is depicted in Figure 4.
- An estimated 1,500 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions. Reclamation and reseedling of the on-pad area will occur during pad abandonment.
- The area of investigation will continue to be monitored, and photo documentation of the vegetation will be included in the final *Closure Report*.

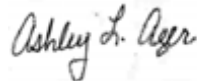
XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

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

Sincerely,
Ensolum, LLC



Tacoma Morrissey, MS
Associate Principal



Ashley Ager, PG, MS
Principal

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
New Mexico State Land Office
Bureau of Land Management

Appendices:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Vegetation Survey Transects
Figure 4	Proposed Excavation Extent
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic / Soil Sampling Logs
Appendix C	Photographic Log

XTO Energy, Inc.
Remediation Work Plan
Big Eddy Unit 248H

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



FIGURES

Site Receptor Map

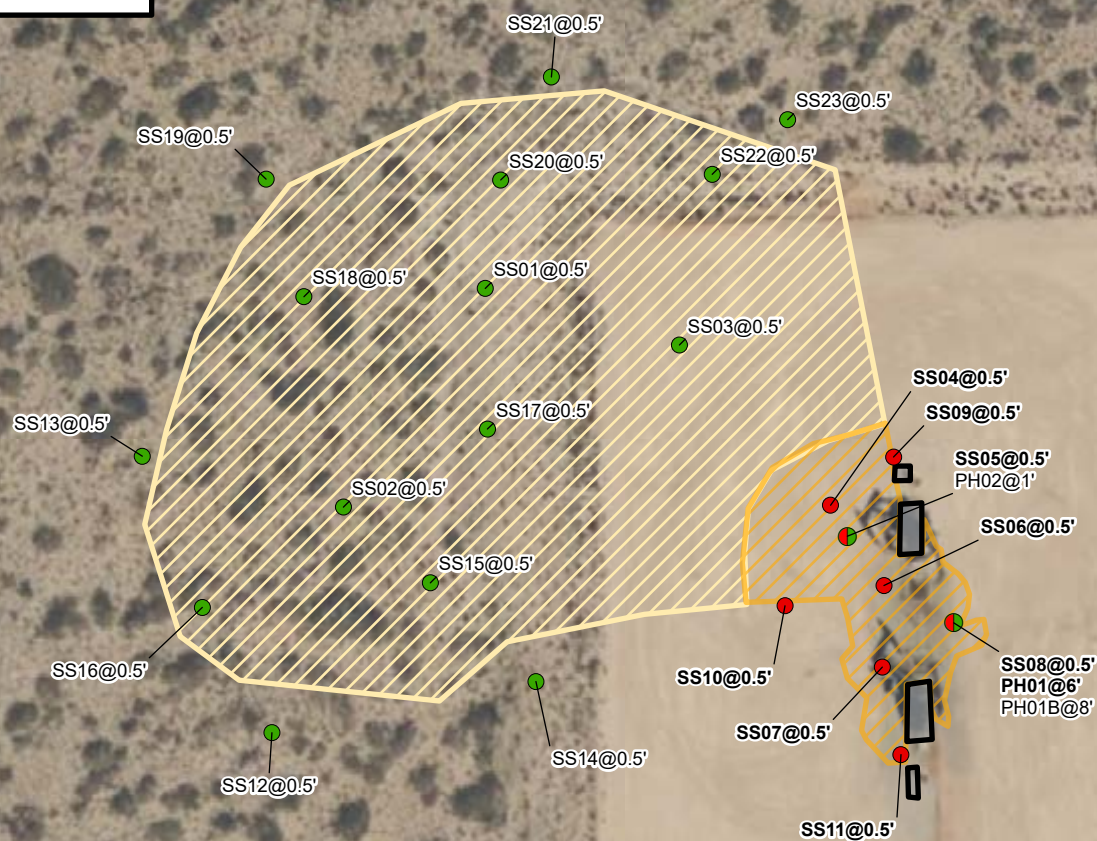
XTO Energy, Inc
Big Eddy Unit 248H
Incident Number: NAPP2418043567
Unit A, Sec 35, T19S, R31E
Eddy County, New Mexico

FIGURE

1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Production Equipment
- Release Extent
- Area of Investigation



Notes:
Sample ID @ Depth Below Ground Surface.

0 25 50 100 150 200
Feet

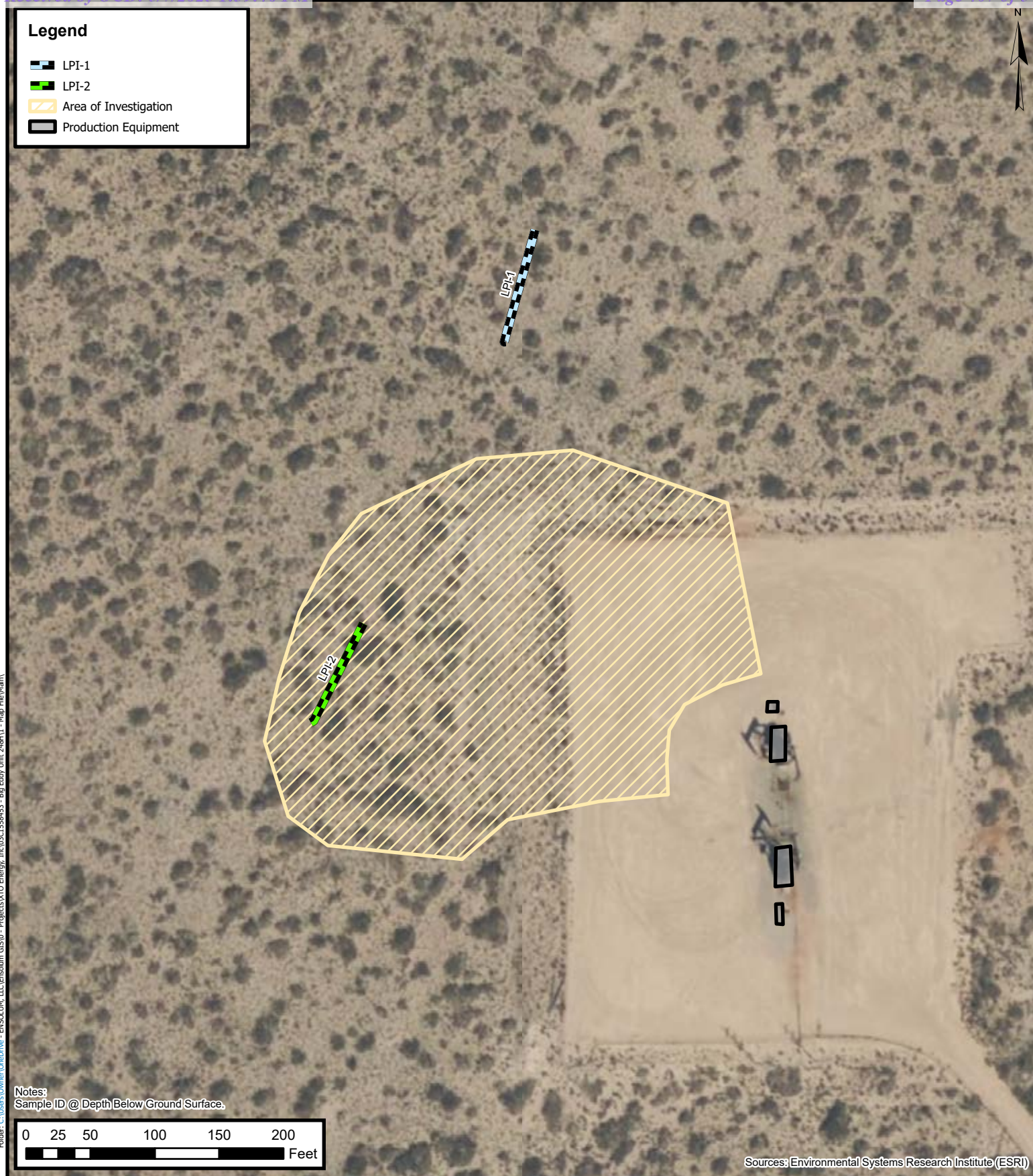
Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

XTO Energy, Inc
Big Eddy Unit 248H
Incident Number: NAPP2418043567
Unit A, Sec 35, T19S, R31E
Eddy County, New Mexico

FIGURE
2

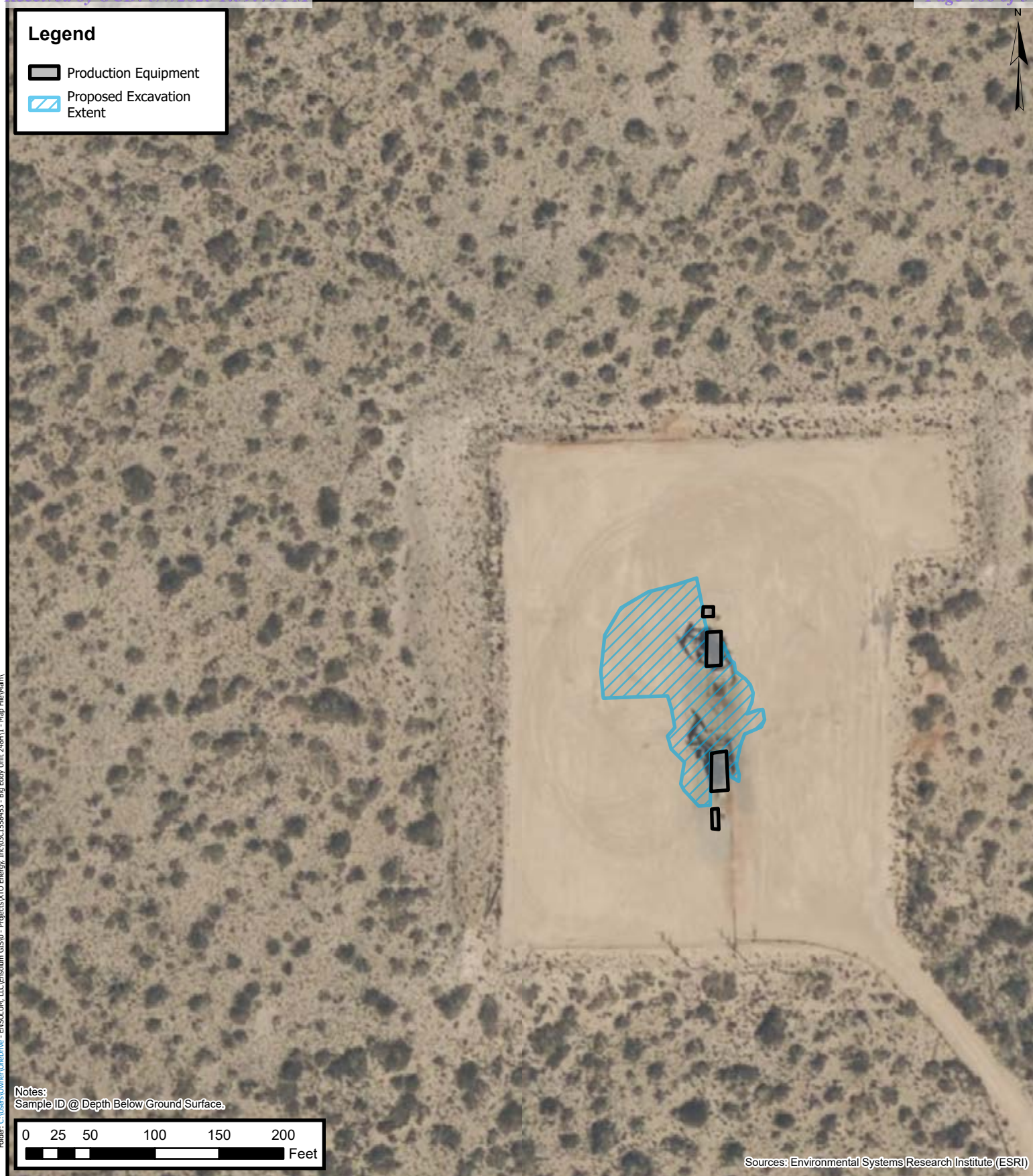


Vegetation Survey Transects

XTO Energy, Inc
Big Eddy Unit 248H
Incident Number: NAPP2418043567
Unit A, Sec 35, T19S, R31E
Eddy County, New Mexico

FIGURE

3



Proposed Excavation Extent

XTO Energy, Inc
Big Eddy Unit 248H
Incident Number: NAPP2418043567
Unit A, Sec 35, T19S, R31E
Eddy County, New Mexico

FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Big Eddy Unit 248H
 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										
SS01	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS04	07/29/2024	0.5	<0.050	<0.300	<10.0	182	55.3	182	237	560
SS05	07/29/2024	0.5	<0.050	<0.300	<10.0	1,870	465	1,870	2,335	1,650
PH02	09/09/2024	1	<0.050	<0.300	<10.0	87.4	13.3	87.4	101	192
SS06	07/29/2024	0.5	<0.050	5.16	75.7	2,710	613	2,786	3,399	1,250
SS07	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
SS08	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,600
PH01	09/09/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
PH01B	09/09/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS09	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SS10	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,570
SS11	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SS12	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS13	07/29/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS15	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS16	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS17	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS18	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS19	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Big Eddy Unit 248H
 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
SS20	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS21	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS22	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS23	09/17/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

SANTA FE

Section 1. GENERAL INFORMATION

(A) Owner of well Phillips Petroleum Owner's Well No. CP-641-Expl.
Street or Post Office Address P.O. Box 2130
City and State Hobbs, NM 88240

Well was drilled under Permit No. TEST HOLE FOR EPA and is located in the: #4 1600' FNL 1600' FWL
a. 1/4 1/4 SE 1/4 NW 1/4 of Section 36 Township 19S Range 31E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Eddy County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. WD882
Address 2601 W. Bender Hobbs, NM 88240
Drilling Began 2-11-82 Completed 2-12-82 Type tools trl-cone 0-220'-7 7/8
220 Size hole 4 3/4
Elevation of land surface or _____ at well is _____ ft. Total depth of well 300 ft.
Completed well is ☐ shallow ☐ artesian test hole Depth to water upon completion of well 130 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>5 1/2</u>	<u>160PVC</u>		<u>0</u>	<u>220</u>				

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received February 23, 1982 Quad _____ FWL _____ FSL _____
File No. CP-641-Exploratory Use EXP. Location No. 19.31.36.14114

Section 7. REMARKS AND ADDITIONAL INFORMATION[illegible]


Larry Jenkins
Driller


Released to Imaging: 5/20/2025 10:30:06 AM



APPENDIX B

Lithologic Soil Sampling Logs

		Sample Name: PH01		Date: 9/9/2024				
		Site Name: Big Eddy Unit 248H						
		Incident Number: NAPP2418043567						
		Job Number: 03C1558453						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.620931, -103.831294			Logged By: JD		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 8'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	12,611	0.0	N	SS08	0.5	0	CCHE	(0-8') CALICHE, tan, fine grained, some sand, well sorted, no odor
						1		
						2		
						3		
						4		Soil excavated to 4' bgs between 9/4/24 and 9/9/2024
						5		
D	929.6	0.0		PH01	6	6		
D	1,495	0.0				7		
D	<162	0.0		PH01A	8	8		
						Total Depth @ 8 feet bgs		

 ENSOLUM		Sample Name: PH02		Date: 9/9/2024				
		Site Name: Big Eddy Unit 248H						
		Incident Number: NAPP2418043567						
		Job Number: 03C1558453						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.621056, -103.831474			Logged By: JD		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,609	24.8	Y	SS05	0.5	0	CCHE	(0-1') CALICHE, tan, fine grained, some sand, well sorted, odor
D	201.6	0.0	N	PH02	1	1		(@1') no odor
						Total Depth @ 1-foot bgs		



APPENDIX C

Photographic Log

**Photographic Log**

XTO Energy, Inc
Big Eddy Unit 248H
NAPP2418043567



Photograph: 1 Date: 6/21/2024
Description: Recovery of free standing fluids
View: Northwest



Photograph: 2 Date: 7/12/2024
Description: Soil staining in release footprint
View: Northwest



Photograph: 3 Date: 7/12/2024
Description: Area of investigation
View: Southeast



Photograph: 4 Date: 9/9/2024
Description: Delineation and excavation activities
View: South

**Photographic Log**

XTO Energy, Inc
Big Eddy Unit 248H
NAPP2418043567



Photograph: 5 Date: 9/13/2024
Description: LPI -1 in undisturbed area
View: North



Photograph: 6 Date: 9/13/2024
Description: LPI -2 in area of investigation
View: Northeast



Photograph: 7 Date: 9/13/2024
Description: LPI -2 in area of investigation
View: Southwest



Photograph: 8 Date: 9/17/2024
Description: View of area of investigation from pad edge
View: North



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

August 02, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 01 .5' (H244536-01)

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	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	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	32.0	16.0	07/31/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 02 .5' (H244536-02)

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	07/31/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45		
Total BTX	<0.300	0.300	07/31/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 03 .5' (H244536-03)

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	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTX	<0.300	0.300	07/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 04 .5' (H244536-04)

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	07/31/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45		
Total BTEx	<0.300	0.300	07/31/2024	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	560	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	182	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	55.3	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 05 .5' (H244536-05)

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	08/01/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	5.60		
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.15	107	2.00	5.41		
Total Xylenes*	<0.150	0.150	08/01/2024	ND	6.59	110	6.00	5.45		
Total BTEx	<0.300	0.300	08/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1650	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	1870	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	465	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 06 .5' (H244536-06)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	0.384	0.050	08/01/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	1.52	0.050	08/01/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	3.26	0.150	08/01/2024	ND	6.59	110	6.00	5.45	
Total BTEX	5.16	0.300	08/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 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	1250	16.0	07/31/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	75.7	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	2710	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	613	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 49.1-148

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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 07 .5' (H244536-07)

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	07/31/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45		
Total BTEx	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	640	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 08 .5' (H244536-08)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTEX	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	13600	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 09 .5' (H244536-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTX	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	1060	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 10 .5' (H244536-10)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTX	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	1570	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 11 .5' (H244536-11)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTX	<0.300	0.300	07/31/2024	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	1060	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 12 .5' (H244536-12)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTEX	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	16.0	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 13 .5' (H244536-13)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTEx	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	32.0	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

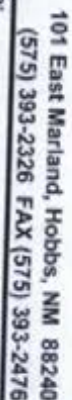
Cardinal Laboratories

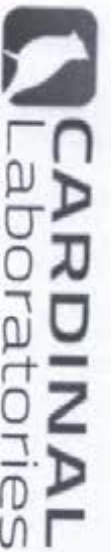
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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**[illegible][illegible]† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabbeynm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensignium, LLC Project Manager: David McInnis Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 409-454-3009 Fax #: Project #: 03C1558453 Project Owner: XTO Project Name: Big Eddy Unit 248H Project Location: Sampler Name: Jesse Dorman				BILL TO P.O. #: Company: XTO Energy Inc. Attn: Amy Ruth Address: 3104 E. Greene St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. H044534 Sample I.D. 11/3 Sample Depth (feet) 5.1 (G)RAB OR (C)OMP. 6'		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV ACID/BASE ICE / COOL OTHER:		SAMPLING DATE 7/29/04 TIME 12:35		BTEX TPH CHLORIDE			
Relinquished By: [Signature] Date: 7-30-04 Time: 10:25 Received By: [Signature] Date: 7-30-04 Time:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: bheilig@ensignium.com, 11Morrissey@ensignium.com, dmcinnis@ensignium.com REMARKS: Cost Center: 1540201001 Incident ID: nAPP2418043567		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #: 444 Corrected Temp. °C: 14.0 Thermometer Error: 0.5°C Corrected Temp. °C:		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C: Corrected Temp. °C:					

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

September 17, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 01 6'	H245458-01	Soil	09-Sep-24 11:30	10-Sep-24 13:00
PH 01A 8'	H245458-02	Soil	09-Sep-24 12:05	10-Sep-24 13:00
FS 10 2'	H245458-03	Soil	09-Sep-24 13:50	10-Sep-24 13:00
FS 11 2'	H245458-04	Soil	09-Sep-24 13:55	10-Sep-24 13:00
FS 15 2'	H245458-05	Soil	09-Sep-24 14:10	10-Sep-24 13:00
PH 02 1'	H245458-06	Soil	09-Sep-24 15:10	10-Sep-24 13:00

09/17/24 - Client changed the sample IDs for -01, -02 and -06 (see COC). This is the revised report and will replace the one sent on 09/11/24.

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

PH 01 6'
H245458-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	752		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 4091019 JH 10-Sep-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane 97.1 % 48.2-134 4091016 MS 10-Sep-24 8015B

Surrogate: 1-Chlorooctadecane 115 % 49.1-148 4091016 MS 10-Sep-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

PH 01A 8'
H245458-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		106 %		71.5-134		4091019	JH	10-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane		97.7 %		48.2-134		4091016	MS	10-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane		115 %		49.1-148		4091016	MS	10-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

FS 10 2'
H245458-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4091019	JH	10-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane			100 %	48.2-134		4091016	MS	10-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	49.1-148		4091016	MS	10-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

FS 11 2'
H245458-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		71.5-134		4091019	JH	10-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane		96.4 %		48.2-134		4091016	MS	10-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane		111 %		49.1-148		4091016	MS	10-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

FS 15 2'
H245458-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4091019	JH	10-Sep-24	8021B	
---------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane			97.8 %		48.2-134	4091016	MS	10-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			113 %		49.1-148	4091016	MS	10-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

PH 02 1'
H245458-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4091019	JH	10-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	87.4		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	13.3		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane			94.3 %		48.2-134	4091016	MS	10-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			111 %		49.1-148	4091016	MS	10-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4091126 - 1:4 DI Water									
Blank (4091126-BLK1)					Prepared & Analyzed: 11-Sep-24				
Chloride	ND	16.0	mg/kg						
LCS (4091126-BS1)					Prepared & Analyzed: 11-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120		
LCS Dup (4091126-BSD1)					Prepared & Analyzed: 11-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4091019 - Volatiles**Blank (4091019-BLK1)**

Prepared & Analyzed: 10-Sep-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	71.5-134			

LCS (4091019-BS1)

Prepared & Analyzed: 10-Sep-24

Benzene	2.05	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.08	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	85.9-128			
m,p-Xylene	4.42	0.100	mg/kg	4.00		110	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.52	0.150	mg/kg	6.00		109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	71.5-134			

LCS Dup (4091019-BSD1)

Prepared & Analyzed: 10-Sep-24

Benzene	1.81	0.050	mg/kg	2.00		90.3	82.8-130	12.5	15.8	
Toluene	1.84	0.050	mg/kg	2.00		92.0	86-128	12.4	15.9	
Ethylbenzene	1.82	0.050	mg/kg	2.00		90.9	85.9-128	12.9	16	
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.7	89-129	12.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	86.1-125	12.9	16.7	
Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	88.2-128	12.4	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	71.5-134			

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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4091016 - General Prep - Organics**Blank (4091016-BLK1)**

Prepared & Analyzed: 10-Sep-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	48.2-134			
Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	49.1-148			

LCS (4091016-BS1)

Prepared & Analyzed: 10-Sep-24

GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118			
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148			

LCS Dup (4091016-BSD1)

Prepared & Analyzed: 10-Sep-24

GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123	3.00	17.7	
DRO >C10-C28	209	10.0	mg/kg	200		104	66.5-118	4.92	21	
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	3.95	18.5	
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	58.9		mg/kg	50.0		118	49.1-148			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: David McInnis

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 409-454-3009

State: NM Zip: 88220

Project #: 03C1558453

Project Owner: XTO

Project Name: Big Eddy Unit 248H

Project Location: 32.62087, -103.83145

Sampler Name: Jesse Dorman

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)

(G)RAB OR (C)OMP

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

TPH

CHLORIDE

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Relinquished By:

Date:

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Date:

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Received By:

Date:

Time:

Delivered By: (Circle One)

Overseas Temp. °C

Corrected Temp. °C

Sample Condition

Coil Intact

Freeze

Yes

No

Checked By:

(Initials)

Turnaround Time:

Standard

Expedited

Expedited

Bacteria (only) Sample Condition

Coil Intact

Yes

No

Corrected Temp. °C

Observed Temp. °C

Corrected Temp. °C

Observed Temp. °C

Corrected Temp. °C

Observed Temp. °C

Corrected Temp. °C

Observed Temp. °C

Corrected Temp. °C

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

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Corrected Temp. °C

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



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

September 18, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 14:11.

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 dark ink, appearing to read "Celey D. Keene", written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 14 .5' (H245642-01)

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	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEX	<0.300	0.300	09/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 15 .5' (H245642-02)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTX	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 16 .5' (H245642-03)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 17 .5' (H245642-04)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTX	<0.300	0.300	09/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 18 .5' (H245642-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTX	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 19 .5' (H245642-06)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 20 .5' (H245642-07)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 21 .5' (H245642-08)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 22 .5' (H245642-09)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/18/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 23 .5' (H245642-10)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTX	<0.300	0.300	09/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/18/2024	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	09/18/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

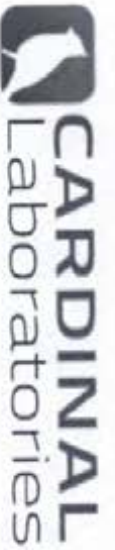
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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: David McInnis

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: 409-454-3009 Fax #:

Project #: 03C1558453 Project Owner: XTO

Project Name: Big Eddy Unit 248H

Project Location: 32.62087, -103.83145

Sampler Name: Jesse Dorman

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							PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							
HAUSCUB	5514	15'	1	1										9/17/21	1130			
	5515	15'	1	1										9/17/21	1133			
	5516	15'	1	1										9/17/21	1135			
	5517	15'	1	1										9/17/21	1136			
	5518	15'	1	1										9/17/21	1137			
	5519	15'	1	1										9/17/21	1138			
	5520	15'	1	1										9/17/21	1139			
	5521	15'	1	1										9/17/21	1140			
	5522	15'	1	1										9/17/21	1141			
	5523	15'	1	1										9/17/21	1142			

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Relinquished By:

Date: 9/17/21

Received By:

Time: 1411

Remarks:

Verbal Result: ☐ Yes ☒ No

Adm Phone #:

Incident ID: NAPP2418043567

Relinquished By:

Date:

Received By:

Time:

Remarks:

Verbal Result: ☐ Yes ☒ No

Adm Phone #:

Incident ID: NAPP2418043567

Delivered By: (Circle One)

Observed Temp: 1.52

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Observed Temp: 1.52

Sampler - UPS - Bus - Other:

Corrected Temp: 0.92

Cool Intact

Yes

Thermometer ID #115

Standard

Bacteria (only)

Sample Condition

Observed Temp: 1.52

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



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

August 02, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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 dark ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 01 .5' (H244536-01)

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	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTX	<0.300	0.300	07/31/2024	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	32.0	16.0	07/31/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 02 .5' (H244536-02)

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	07/31/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45		
Total BTX	<0.300	0.300	07/31/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 03 .5' (H244536-03)

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	07/31/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45		
Total BTX	<0.300	0.300	07/31/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 04 .5' (H244536-04)

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	07/31/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45		
Total BTX	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	560	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	182	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	55.3	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 05 .5' (H244536-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	6.59	110	6.00	5.45	
Total BTX	<0.300	0.300	08/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1650	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	1870	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	465	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 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
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 06 .5' (H244536-06)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	0.384	0.050	08/01/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	1.52	0.050	08/01/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	3.26	0.150	08/01/2024	ND	6.59	110	6.00	5.45	
Total BTX	5.16	0.300	08/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 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	1250	16.0	07/31/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	75.7	10.0	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	2710	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	613	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 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
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 07 .5' (H244536-07)

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	07/31/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45		
Total BTEx	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	640	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 08 .5' (H244536-08)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTEx	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	13600	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 09 .5' (H244536-09)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTEX	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	1060	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 10 .5' (H244536-10)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTX	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	1570	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 11 .5' (H244536-11)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTEX	<0.300	0.300	07/31/2024	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	1060	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 12 .5' (H244536-12)

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	07/31/2024	ND	2.00	100	2.00	8.77		
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73		
Total BTX	<0.300	0.300	07/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 13 .5' (H244536-13)

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	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTX	<0.300	0.300	07/31/2024	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	32.0	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

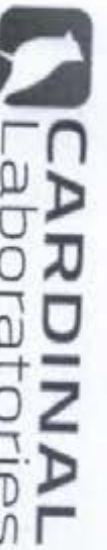
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: EnsoLum, LLC		BILL TO		ANALYSIS REQUEST	
Project Manager: David McInnis		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.			
City: Carlsbad		Attn: Amy Ruth			
Phone #: 409-454-3009		Address: 3104 E. Greene St.			
Fax #:		City: Carlsbad			
Project #: 03C1558453		State: NM		Zip: 88220	
Project Name: Big Eddy Unit 248H		Phone #:			
Project Location: 32-62087-103, 831415		Fax #:			
Sampler Name: Jesse Dorman					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE					
1	5501	5'														
2	5502															
3	5503															
4	5504															
5	5505															
6	5506															
7	5507															
8	5508															
9	5509															
10	5510															

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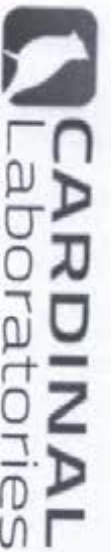
Relinquished By: [Signature] **Date:** 7/30/24 **Received By:** [Signature] **Date:** 7/25

Relinquished By: [Signature] **Date:** 7/25 **Received By:** [Signature]

Delivered By: (Circle One) **Temperature:** 14.4°C **Sample Condition:** Cool ☒ Intact ☐ Yes ☐ No **Checked By:** [Signature]

Sampler: UPS - Bus - Other: **Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabnm.com**

Remarks: **Verbal Result:** ☐ Yes ☒ No **Add'l Phone #:** **All Results are emailed. Please provide Email address:** **Turnaround Time:** Standard ☒ Rush ☐ **Bacteria (only) Sample Condition:** Cool ☒ Intact ☐ Yes ☐ No **Observed Temp. °C:** **Corrected Temp. °C:**



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: David McInnis Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 409-454-3009 Fax #: Project #: 03C1558453 Project Owner: XTO Project Name: Big Eddy Unit 248H Project Location: Sampler Name: Jesse Dorman				BILL TO P.O. #: Company: XTO Energy Inc. Attn: Amy Ruth Address: 3104 E. Greene St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. HQ44534 Sample I.D. 11/3 Sample Depth (feet) 5.1 (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		MATRIX PRESERV SAMPLING		DATE 7/29/24 TIME 12:35 BTEX TPH CHLORIDE							
Relinquished By: [Signature] Date: 7-30-24 Time: 10:25 Received By: [Signature] Date: Time:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: bheilig@ensolum.com, 11Morrissey@ensolum.com, dmcinnis@ensolum.com REMARKS: Cost Center: 1540201001 Incident ID: nAPP2418043567		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #: 140 Corrected Temp. °C Observed Temp. °C Corrected Temp. °C		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Checked By: [Signature]		Delivered By: (Circle One) UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other:			

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

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

September 17, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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 dark ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:Reported:
17-Sep-24 15:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 01 6'	H245458-01	Soil	09-Sep-24 11:30	10-Sep-24 13:00
PH 01A 8'	H245458-02	Soil	09-Sep-24 12:05	10-Sep-24 13:00
FS 10 2'	H245458-03	Soil	09-Sep-24 13:50	10-Sep-24 13:00
FS 11 2'	H245458-04	Soil	09-Sep-24 13:55	10-Sep-24 13:00
FS 15 2'	H245458-05	Soil	09-Sep-24 14:10	10-Sep-24 13:00
PH 02 1'	H245458-06	Soil	09-Sep-24 15:10	10-Sep-24 13:00

09/17/24 - Client changed the sample IDs for -01, -02 and -06 (see COC). This is the revised report and will replace the one sent on 09/11/24.

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

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

PH 01 6'
H245458-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	752		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 4091019 JH 10-Sep-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane 97.1 % 48.2-134 4091016 MS 10-Sep-24 8015B

Surrogate: 1-Chlorooctadecane 115 % 49.1-148 4091016 MS 10-Sep-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

PH 01A 8'
H245458-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 4091019 JH 10-Sep-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane 97.7 % 48.2-134 4091016 MS 10-Sep-24 8015B

Surrogate: 1-Chlorooctadecane 115 % 49.1-148 4091016 MS 10-Sep-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

FS 10 2'
H245458-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4091019	JH	10-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			100 %	48.2-134		4091016	MS	10-Sep-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			120 %	49.1-148		4091016	MS	10-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

FS 11 2'
H245458-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		71.5-134		4091019	JH	10-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane		96.4 %		48.2-134		4091016	MS	10-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane		111 %		49.1-148		4091016	MS	10-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

FS 15 2'
H245458-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4091019	JH	10-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane			97.8 %		48.2-134	4091016	MS	10-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			113 %		49.1-148	4091016	MS	10-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

PH 02 1'
H245458-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4091019	JH	10-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
DRO >C10-C28*	87.4		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	
EXT DRO >C28-C36	13.3		10.0	mg/kg	1	4091016	MS	10-Sep-24	8015B	

Surrogate: 1-Chlorooctane			94.3 %		48.2-134	4091016	MS	10-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			111 %		49.1-148	4091016	MS	10-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4091126 - 1:4 DI Water									
Blank (4091126-BLK1)									
					Prepared & Analyzed: 11-Sep-24				
Chloride	ND	16.0	mg/kg						
LCS (4091126-BS1)									
					Prepared & Analyzed: 11-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120		
LCS Dup (4091126-BSD1)									
					Prepared & Analyzed: 11-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20

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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4091019 - Volatiles**Blank (4091019-BLK1)**

Prepared & Analyzed: 10-Sep-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	71.5-134			

LCS (4091019-BS1)

Prepared & Analyzed: 10-Sep-24

Benzene	2.05	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.08	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	85.9-128			
m,p-Xylene	4.42	0.100	mg/kg	4.00		110	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.52	0.150	mg/kg	6.00		109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	71.5-134			

LCS Dup (4091019-BSD1)

Prepared & Analyzed: 10-Sep-24

Benzene	1.81	0.050	mg/kg	2.00		90.3	82.8-130	12.5	15.8	
Toluene	1.84	0.050	mg/kg	2.00		92.0	86-128	12.4	15.9	
Ethylbenzene	1.82	0.050	mg/kg	2.00		90.9	85.9-128	12.9	16	
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.7	89-129	12.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	86.1-125	12.9	16.7	
Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	88.2-128	12.4	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Manager: DAVID MCINNIS
Fax To:

Reported:
17-Sep-24 15:23

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4091016 - General Prep - Organics**Blank (4091016-BLK1)**

Prepared & Analyzed: 10-Sep-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	48.2-134			
Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	49.1-148			

LCS (4091016-BS1)

Prepared & Analyzed: 10-Sep-24

GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118			
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148			

LCS Dup (4091016-BSD1)

Prepared & Analyzed: 10-Sep-24

GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123	3.00	17.7	
DRO >C10-C28	209	10.0	mg/kg	200		104	66.5-118	4.92	21	
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	3.95	18.5	
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	58.9		mg/kg	50.0		118	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST	
Project Manager: David McInnis		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.			
City: Carlsbad		Attn: Amy Ruth			
Phone #: 409-454-3009		Address: 3104 E. Green St.			
State: NM Zip: 88220		City: Carlsbad			
Project #: 03C1558453		State: NM Zip: 88220			
Project Owner: XTO		Phone #:			
Project Location: Big Eddy Unit 248H		Fax #:			
Sampler Name: Jesse Dorman					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE					
#245458	Phos 1	6'	G	1								9/9/24	11:30			
	Phos 2	8'	G	1									12:05			
	Phos 3	10'	G	1									13:30			
	Phos 4	12'	G	1									13:55			
	Phos 5	14'	G	1									14:10			
	Phos 6	16'	G	1									15:10			
	SD															

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Relinquished By:	Date: 9/10/24	Received By:	Time: 1300
<i>[Signature]</i>		<i>[Signature]</i>	
Delivered By: (Circle One)	Observed Temp. °C: 9.3	Sample Condition:	CHECKED BY:
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 0.1	Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>[Signature]</i>
		Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			TURNAROUND TIME: Standard Rush
			<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
			Bacteria (only) Sample Condition:
			Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No
			Observed Temp. °C:
			Corrected Temp. °C:

REMARKS: *Customer Requested ID changes. 9/17/24

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

All Results are emailed. Please provide Email address: DMcInnis@ensolum.com TMcInnis@ensolum.com

Incident ID: N4002418043567

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



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

September 18, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 248H

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 14:11.

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 14 .5' (H245642-01)

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	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTX	<0.300	0.300	09/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 15 .5' (H245642-02)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 16 .5' (H245642-03)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 17 .5' (H245642-04)

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	09/17/2024	ND	2.11	105	2.00	6.21	
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13	
Total BTEx	<0.300	0.300	09/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 18 .5' (H245642-05)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 19 .5' (H245642-06)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 20 .5' (H245642-07)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 21 .5' (H245642-08)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTX	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/17/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 22 .5' (H245642-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTX	<0.300	0.300	09/17/2024	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	<16.0	16.0	09/18/2024	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	09/18/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/17/2024
Reported: 09/18/2024
Project Name: BIG EDDY UNIT 248H
Project Number: 03C1558453
Project Location: XTO 32.62087 -103.83145

Sampling Date: 09/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 23 .5' (H245642-10)

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	09/17/2024	ND	2.11	105	2.00	6.21		
Toluene*	<0.050	0.050	09/17/2024	ND	2.13	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.53	109	6.00	6.13		
Total BTEx	<0.300	0.300	09/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/18/2024	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	09/18/2024	ND	201	101	200	2.40	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	102	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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

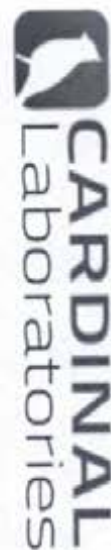
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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				P.O. #:				ANALYSIS REQUEST			
Project Manager: David McInnis								Company: XTO Energy Inc.							
Address: 3122 National Parks Hwy								Attn: Amy Ruth							
City: Carlsbad				State: NM Zip: 88220				Address: 3104 E. Green St.							
Phone #: 409-454-3009				Fax #:				City: Carlsbad							
Project #: 03C155453				Project Owner: XTO				State: NM Zip: 88220							
Project Name: Big Eddy Unit 248H								Phone #:							
Project Location: 32.62087, -103.83145								Fax #:							
Sampler Name: Jesse Dorman															

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H24514A	5514	5'	G	1							9/17/01	1130			
	5515											1133			
	5516											1136			
	5517											1141			
	5518											1144			
	5519											1146			
	5520											1152			
	5521											1155			
	5522											1158			
	5523														

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Relinquished By: [Signature]	Date: 9/17/01	Received By: [Signature]	Time: 11:54
Relinquished By: [Signature]	Date: 9/17/01	Received By: [Signature]	Time: 11:54

Delivered By: (Circle One) <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Other:	Observed Temp. °C: 15.4	Sample Condition: Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: [Signature]
Turnaround Time: Standard Rush	Thermometer ID: #113-#114	Bacteria (only) Sample Condition: <input type="checkbox"/> Bacteri (only) <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrected Temp. °C:

REMARKS: Cool Center: 1140201001 Incident ID: NAF2418043567

Verbal Result: ☐ Yes ☒ No Add'l Phone #: _____
All Results are emailed. Please provide Email address: dmcinnis@ensolum.com tkhorresy@ensolum.com kthornton@ensolum.com



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

February 03, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BEU 2481249H

Enclosed are the results of analyses for samples received by the laboratory on 01/31/25 17:00.

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 dark ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 03 1 (H250597-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	01/31/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 03 4 (H250597-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910		
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157		
Total BTEX	<0.300	0.300	01/31/2025	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	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 01 5 (H250597-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910		
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157		
Total BTEX	<0.300	0.300	01/31/2025	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	224	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 01 6 (H250597-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	01/31/2025	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	256	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 01 9 (H250597-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910		
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157		
Total BTEx	<0.300	0.300	01/31/2025	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	144	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 04 4 (H250597-06)

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	01/31/2025	ND	2.33	117	2.00	0.910		
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157		
Total BTX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1010	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	179	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	41.8	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 02 1 (H250597-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2025	ND	2.33	117	2.00	0.910		
Toluene*	<0.050	0.050	01/31/2025	ND	2.37	119	2.00	2.56		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.53	127	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	7.63	127	6.00	0.157		
Total BTEX	<0.300	0.300	01/31/2025	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	176	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	135	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	54.7	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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 "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: *Trey Miller*

Address: 601 N Marland Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 575-937-3906 Fax #: 575-937-3906

Project #: 03655477 03655477 Project Owner: XTO Energy

Project Name: *BEU 29812494*

Project Location: *32.62085, -103.83132*

Sampler Name: *Don Ric*

BILL TO

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Company Name: Ensolum, LLC										BILL TO										ANALYSIS REQUEST									
Project Manager: Treas. Sullivan										P.O. #:																			
Address: 601 N Marfield Street, Suite 400										Company: XTO Energy, Inc																			
City: Midland										Attn: Colton Brown																			
State: TX Zip: 79701										Address: 3104 E Greene St																			
Phone #: 575-937-3906 Fax #:										City: Carlsbad																			
Project #: 0365547 03655473										State: NM Zip: 88220																			
Project Name: BEN 24812494										Phone #:																			
Project Location: 32.62085, -103.83132										Fax #:																			
Sampler Name: Even Ave										MATRIX										PRESERV									
FOR LAB USE ONLY										GROUNDWATER										SAMPLING									
										WASTEWATER																			
										SOIL																			
										OIL																			
										SLUDGE																			
										OTHER :																			
										ACID/BASE:																			
										ICE / COOL																			
										OTHER :																			
Lab I.D.										Sample I.D.										Depth (feet)									
H250541										PH03										1									
2										PH03										4									
3										PH01										5									
4										PH01										6									
5										PH01										9									
6										PH04										4									
7										PH02										1									
										(G)RAB OR (C)OMP.																			
										# CONTAINERS																			

PLEASE NOTE: Samples and Containers, Carriers, and other materials used for any data testing must be provided in writing and received by Cardinal within 30 days after completion of the application. All data, including those for negligence and any other cause, shall be provided in writing and received by Cardinal within 30 days after completion of the application. In no event shall Cardinal be liable for negligent 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 furnished by Cardinal, regardless of whether such claim is based upon any of the above stated theories of liability.

Relinquished By:

Date: 1/31/25

Received By:

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

All Results are emailed. Please provide Email address: BBeall@ensolum.com, Tlvorrissey@ensolum.com, TMillard@ensolum.com

Relinquished By:

Date: 1/31/25

Received By:

REMARKS: 0802418043567 0802432531235 0802432147037 0802502042071

Delivered By: (Circle One)

Observed Temp: 3.8°C

Sample Condition Cool Intact ☐ Yes ☐ No

Turnaround Time: Standard ☐ Bacteria (only) Sample Condition Cool Intact ☐ Yes ☐ No

Sampler - UPS - Bus - Other:

Corrected Temp: 2.7°C

Checked BY: (Initials) PD

Thermometer ID: 61154400 Calibration: 25°C 0.024°C ☐ Yes ☐ No

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



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

February 03, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BEU 2481249H

Enclosed are the results of analyses for samples received by the laboratory on 01/31/25 17:00.

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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 05 1' (H250598-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.15	0.500	02/03/2025	ND	2.37	118	2.00	6.88	
Toluene*	16.3	0.500	02/03/2025	ND	2.51	125	2.00	11.1	
Ethylbenzene*	11.9	0.500	02/03/2025	ND	2.54	127	2.00	12.7	
Total Xylenes*	23.7	1.50	02/03/2025	ND	7.52	125	6.00	12.8	
Total BTEX	53.1	3.00	02/03/2025	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	2480	16.0	02/03/2025	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*	419	10.0	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	1550	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	277	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 05 2' (H250598-02)

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	02/03/2025	ND	2.37	118	2.00	6.88	
Toluene*	0.215	0.050	02/03/2025	ND	2.51	125	2.00	11.1	
Ethylbenzene*	0.080	0.050	02/03/2025	ND	2.54	127	2.00	12.7	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.52	125	6.00	12.8	
Total BTEX	0.474	0.300	02/03/2025	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	640	16.0	02/03/2025	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	02/03/2025	ND	202	101	200	0.762	
DRO >C10-C28*	20.7	10.0	02/03/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 05 3' (H250598-03)

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	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTX	<0.300	0.300	02/01/2025	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	144	16.0	02/03/2025	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	02/03/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 05 4' (H250598-04)

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	02/01/2025	ND	2.33	117	2.00	0.910		
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56		
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63		
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157		
Total BTEx	<0.300	0.300	02/01/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	32.0	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 05 5' (H250598-05)

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	02/01/2025	ND	2.33	117	2.00	0.910		
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56		
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63		
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157		
Total BTEX	<0.300	0.300	02/01/2025	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	32.0	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 05 6' (H250598-06)

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	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	02/01/2025	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	32.0	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 05 7' (H250598-07)

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	02/01/2025	ND	2.33	117	2.00	0.910		
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56		
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63		
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157		
Total BTEx	<0.300	0.300	02/01/2025	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	48.0	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/31/2025
 Reported: 02/03/2025
 Project Name: BEU 2481249H
 Project Number: 03C155877 03C1558453
 Project Location: XTO 32.62085, -103.83132

Sampling Date: 01/31/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PH 05 8' (H250598-08)

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	02/01/2025	ND	2.33	117	2.00	0.910	
Toluene*	<0.050	0.050	02/01/2025	ND	2.37	119	2.00	2.56	
Ethylbenzene*	<0.050	0.050	02/01/2025	ND	2.53	127	2.00	1.63	
Total Xylenes*	<0.150	0.150	02/01/2025	ND	7.63	127	6.00	0.157	
Total BTEX	<0.300	0.300	02/01/2025	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	16.0	16.0	02/03/2025	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	01/31/2025	ND	202	101	200	0.762	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	181	90.4	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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: Trey Hillard

Address: 601 N Marientfield Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 575-437-3506 Fax #: 575-437-3543

Project # 030155477 Project Owner: XTO Energy

Project Name: BEH 248124921

Project Location: BEH 248124921-103.83132

Sampler Name: Even Roe

BILL TO

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	MATRIX										DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
			(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL					
HSC0598	1 PHOS	1											1/31/25	1307			
	2 PHOS	2											1/31/25	1313			
	3 PHOS	3											1/31/25	1319			
	4 PHOS	4											1/31/25	1324			
	5 PHOS	5											1/31/25	1327			
	6 PHOS	6											1/31/25	1333			
	7 PHOS	7											1/31/25	1339			
	8 PHOS	8											1/31/25	1348			

PLEASE NOTE: Liability and Damages. Cardinal's liability and damage exclusion 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. It is no event until Cardinal is liable for negligent 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. Repetition of whether such claim is based upon any of the above stated respects or otherwise.

Relinquished By:

Date: 1-3-25

Received By:

Time: 1700

Date: 1/3/25

Verbal Result: ☐ Yes ☐ No Addt Phone #:

All Results are emailed. Please provide Email address:

BBell@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

Relinquished By:

Date: 1700

Received By:

Time: 1700

Date: 1/3/25

Verbal Result: ☐ Yes ☐ No Addt Phone #:

All Results are emailed. Please provide Email address:

BBell@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

Delivered By: (Circle One)

Overseas Temp: 33.0

Corrected Temp: 37.0

Sample Condition

Good ☐ Intact ☐ Yes ☐ No ☐

Turnaround Time: Standard

Bacteria (only) ☐ Sample Condition

Observed Temp: 24.0

Sampler - JPS - Bus - Other:

Overseas Temp: 33.0

Corrected Temp: 37.0

Sample Condition

Good ☐ Intact ☐ Yes ☐ No ☐

Turnaround Time: Standard

Bacteria (only) ☐ Sample Condition

Observed Temp: 24.0

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



Appendix E

NMOCD Correspondence

Ben Belill

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, January 16, 2025 9:51 AM
To: Brown, Colton S
Cc: Dirkx, Kaylan; Garcia, Amanda; McAfee, Ashley A; Tacoma Morrissey; Ben Belill; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject: (Variance Approval) -XTO - Big Eddy Unit 248H- Incident Number NAPP2418043567

[**EXTERNAL EMAIL**]

Colton,

The Variance Request for confirmation floor sample size of 1,000 ft² in the “Area of Investigation” is approved. The “Release Area” will still need confirmation samples representing no more than 200 ft². Please include this e-mail correspondence in the Remediation Closure Report. I have changed the location and coordinates to match where the majority of the release occurred, which is Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°).

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Brown, Colton S <colton.s.brown@exxonmobil.com>
Sent: Thursday, January 16, 2025 7:19 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Garcia, Amanda <amanda.garcia@exxonmobil.com>; McAfee, Ashley A <ashley.a.mcafee@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>
Subject: [EXTERNAL] XTO- Variance Request- Big Eddy Unit 248H- Incident Number

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

Good Morning,

Please see the sampling variance below and supporting documentation attached. Please let me know of any questions or concerns.

Mr. Hamlet,

Based on our discussion today, XTO is submitting a variance request for the confirmation soil sampling requested in the conditions of approval for a Remediation Work Plan. The Work Plan was submitted September 20, 2024 and approved on November 6, 2024 with the following conditions of approval:

- "...Confirmation samples will need to be conducted at surface and at 0.5 feet in the "Area of Investigation" to ensure that contaminants didn't get carried/deposited in this area. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule."

As discussed on our call, January 15, 2024, the "area of investigation" was investigated to assess the area due to high winds at the time of the release in a northwesterly direction. Vegetation was assessed by a staff biologist, and delineation soil samples were collected within an around the area of investigation. The vegetation was determined to be healthy and similar to the surrounding area and no impacts to soil were identified. As such, XTO proposed continued monitoring of the area of investigation. XTO's goal was to be especially protective of the sparse vegetation in the area and to mitigate any additional disturbance of the area as it is in a mapped area for potential Dune Sagebrush Lizard habitat. Following our conversation, XTO understands the need for confirmation soil sampling of the area, however, to ensure minimal disturbance of the area, XTO proposes a variance of the 200 square foot confirmation soil sample frequency and recommends confirmation soil sample be collected on a 1,000 square foot sampling frequency. We believe this will provide additional confirmation that no impacted soil exists in the area and be protective of the vegetative health and potential habitat of the Dune Sagebrush Lizard.

One note, the coordinates on the OCD portal are incorrect, as stated in the Work Plan: The release was initially reported at the incorrect location but following a review of initial release records, internal documents, and personnel communications, it was confirmed the release is located on the Big Eddy Unit 248H well pad. The majority of the release is located in Unit A, Section 35, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62087°, -103.83145°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). However, a portion of the release occurred on State Land managed by New Mexico State Land Office (SLO) in Unit D, Section 36, Township 19 South, and Range 31 East.

The following attachments are included as supporting documentation.

Figure 1 Site Location Map (showing the correct location)
Figure 2 Delineation Soil Sample Locations
Figure 3 Vegetation Survey Transects
Table 1 Soil Sample Analytical Results
Photographic Log

If we can provide any additional information, please let us know.

Thank you

Colton Brown
Spill Coordinator

ExxonMobil Upstream Company
3104 E. Greene St.
Carlsbad, NM 88220
Cell Phone: 575-988-2390
colton.s.brown@exxonmobil.com

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 459817

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 459817
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2418043567
Incident Name	NAPP2418043567 BIG EDDY UNIT 248H @ 30-015-40714
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40714] BIG EDDY UNIT #248H

Location of Release Source*Please answer all the questions in this group.*

Site Name	BIG EDDY UNIT 248H
Date Release Discovered	06/21/2024
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Release Other
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	Cause: Equipment Failure Well Crude Oil Released: 5 BBL Recovered: 2 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Well Produced Water Released: 9 BBL Recovered: 3 BBL Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 459817

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 459817
	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: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 05/07/2025
--	--

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QUESTIONS, Page 3

Action 459817

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 459817
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	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	
<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>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4040
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3399
GRO+DRO (EPA SW-846 Method 8015M)	2786
BTEX (EPA SW-846 Method 8021B or 8260B)	5
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	07/29/2024
On what date will (or did) the final sampling or liner inspection occur	04/04/2025
On what date will (or was) the remediation complete(d)	04/04/2025
What is the estimated surface area (in square feet) that will be reclaimed	10700
What is the estimated volume (in cubic yards) that will be reclaimed	1500
What is the estimated surface area (in square feet) that will be remediated	10700
What is the estimated volume (in cubic yards) that will be remediated	1500
<i>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.</i>	
<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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QUESTIONS, Page 4

Action 459817

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 459817
	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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 05/07/2025
<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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QUESTIONS, Page 5

Action 459817

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 459817
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 459817

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	459817
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	457836
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/02/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

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	30200
What was the total volume (cubic yards) remediated	3100
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	30200
What was the total volume (in cubic yards) reclaimed	2900
Summarize any additional remediation activities not included by answers (above)	"Excavation activities were conducted at the Site in accordance with the Work Plan to address the multiple releases of crude oil and produced water. The approved February 4, 2025, Work Plan is included in Appendix C. Laboratory analytical results for all final excavation soil samples indicated all COC concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The final excavation backfill is ongoing with material purchased locally and is being recontoured to match pre-existing Site conditions. Excavation of soil has removed impacted soil from the area. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Numbers nAPP2418043567, nAPP2432147637, nAPP2432531235, & nAPP2502042071."

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: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 05/07/2025
--	--

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QUESTIONS, Page 7

Action 459817

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 459817
	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 459817

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 459817
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/20/2025