

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.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

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 chlorideimpacted 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.

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



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.

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

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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

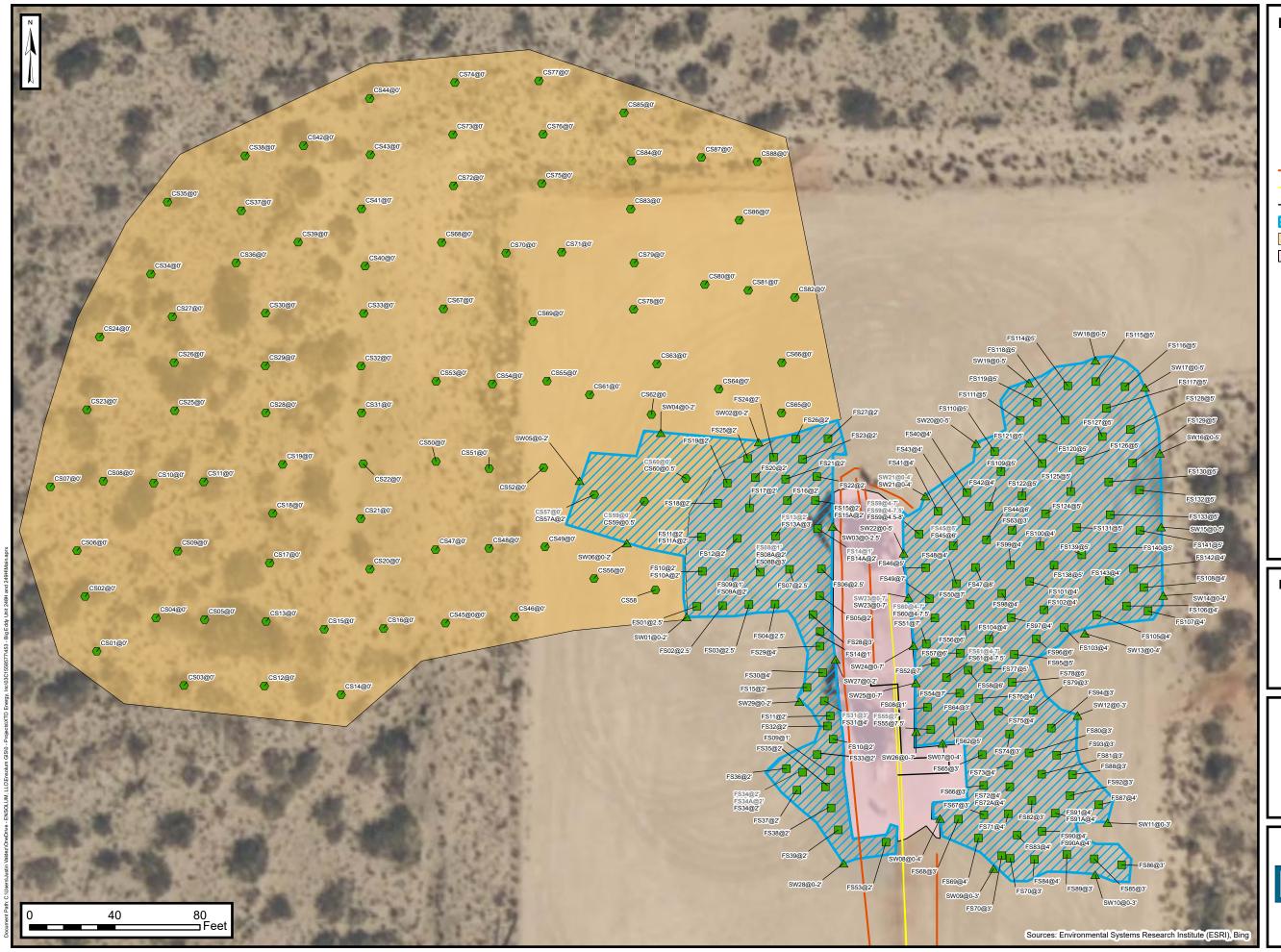
Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix C February 4, 2025, Remediation Work Plan



FIGURES

Received by OCD: 5/7/2025 1:39:46 PM



Legend

- Confirmation Soil Sample in
 Compliance with Closure
- Excavation Floor Sample in
 Compliance with Closure
- Excavation Sidewall Sample in
 Compliance with Closure
 Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Surface Line
- Excavation Extent
- Area of Investigation
- Production Equipment

Excavation Soil Sample Locations

XTO Energy, Inc Big Eddy Unit 248H and 249H Incident Number: nAPP2418043567, nAPP2432147637, nAPP2432531235, and nAPP2502042071 Unit A, Section 35, T 19S, R 31E Eddy County, New Mexico

FIGURE

1





TABLES



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 Cl	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Confi	rmation Soil Sa	ımples				
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



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (I	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	128	50.3	128	178	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	160
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	651	282	651	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



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 Cl	losure Criteria (I	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
				Exca	avation Soil Sar	mples				
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



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (l	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



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (l	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	10	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



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (l	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
ES90	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



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 Cl	losure Criteria (I	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



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (I	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



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (I	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	8 7.2	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





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



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 05/02/2025 Reported: 05/05/2025

05/05/2025 Sampling Type: BIG EDDY UNIT 248H & 249H Sampling Condition:

Project Name: BIG EDDY UNIT 248H & 249H Project Number: 03C1558453

Project Location: XTO 32.62085,-103.83132

Sampling Date: 05/02/2025

Sample Received By:

Soil Cool & Intact

Alyssa Parras

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<0.300	0.300	05/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/02/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.0	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Kreene



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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Celeg D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

(0,0) 000 0000				ANALYSIS DECLIEST	
Company Name: Ensolum, LLC		BILL 10		מומרוסוס מרמסרס.	1
Project Manager: Tracy Hillard		P.O. #:			_
Address: 601 N Marienfeld Street, Suite 400	Suite 400	Company: XTO Energy, Inc.	y, inc		
City: Midland	State: TX Zip: 79701	Attn: Colton Brown			_
Phone #: 575-937-3906	Fax #:	Address: 3104 E Greene St	ine St		
Project #: /361558453	Project Owner: XTO Energy	City: Carlsbad			_
Project Name: Bir Solly War	- 148418 7444 - Spills	State: NM Zip: 88220	20		
Project Location: 32.62085, -103.83 132	5-103.83132	Phone #:			_
Sampler Name: Evan Roe		Fax #:			_
FOR LAB USE CHLY		PRESERV. SAM	SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE/COOL \ OTHER:			
45 5 9	1	<	V V V 086		
PLANE NOTE: Leading and Durreages, Continuit's labeling as analyses. All claims: probating those for negligence and any service, in no exent shall Continue be lately for occlamate or	ger, Cardinal's liability and disprix contrains nersedy for any dates stoney whether treads or sociated or fact, shall be liabiled to the employ paid by the infect for the property of the property of the standard or fact that the contract of the application of	contact or furt, shall be limbed to the amount of ting and increased by Cardhall willing 30 days an plane, have of use, or lose of pusits incurred by	unit paid by the offend for the typ share completion of the applicable ad by client, its vulneafactes.		
Relinquished By:	Date: Received By:		Verbal Result: Yes No Add Phon Add Phon Add Phon All Results are emailed. Please provide Email at Belifigensolum.com, TMorrissey@ensolum.com, THalland@ensolum.com, KThonnason@ensolum.com	e#: idress:	
Relinquished By:	Date: Received By:		REMARKS: Incident Number Cost Center: 1 140 101001 GFCM: 48605000	01001 NAPP2492871735 NAPP2492871735 NAPP2492871735	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Ossessed Tames 'C Sample Condition Consider Tames 'C Cool Intact	rdition CHECKED BY:	Turnaround Time: Standard	Bacteria (only) Sample Condition Cool infact Observed Temp. "C	



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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



02/19/2025

Soil

Analytical Results For:

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

Received: 02/20/2025 Sampling Date:

Reported: 02/26/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

A I J 711

Project Location: XTO 32.08526-103.93856

Sample ID: CS 01 SURFACE (H251014-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	14						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	14						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	18						

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Celeg D. Keene



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	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keene



02/19/2025

Soil

Analytical Results For:

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

Received: 02/20/2025

Reported: 02/26/2025 Sampling Type:
Project Name: BIG EDDY UNIT 248H Sampling Condition:

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Sampling Date:

Project Location: XTO 32.08526-103.93856

Sample ID: CS 03 SURFACE (H251014-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	18						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 04 SURFACE (H251014-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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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)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	18						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 06 SURFACE (H251014-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 07 SURFACE (H251014-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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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

BIG EDDY UNIT 248H

Project Name: 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)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	117 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	6 49.1-14	8						

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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)

Analyte Result Reporting Limit Analyzed Method Blank BS % Benzene* <0.050 0.050 02/23/2025 ND 2.06 Toluene* <0.050 0.050 02/23/2025 ND 2.12 Ethylbenzene* <0.050 0.050 02/23/2025 ND 2.19 Total Xylenes* <0.150 0.150 02/23/2025 ND 6.70 Total BTEX <0.300 0.300 02/23/2025 ND	103 106 109 112	2.00 2.00 2.00 2.00 6.00	5.08 4.76 4.36 4.34	Qualifier
Toluene* <0.050 0.050 02/23/2025 ND 2.12 Ethylbenzene* <0.050 0.050 02/23/2025 ND 2.19 Total Xylenes* <0.150 0.150 02/23/2025 ND 6.70	106 109	2.00 2.00	4.76 4.36	
Ethylbenzene* <0.050 0.050 02/23/2025 ND 2.19 Total Xylenes* <0.150 0.150 02/23/2025 ND 6.70	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 %	6 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 %	6 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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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 10 SURFACE (H251014-10)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 11 SURFACE (H251014-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<0.300	0.300	02/22/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Tamara Oldaker

Project Location: XTO 32.08526-103.93856

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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 13 SURFACE (H251014-13)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 14 SURFACE (H251014-14)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	18						

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02/19/2025

Analytical Results For:

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

Received: 02/20/2025 Sampling Date:

Reported: 02/26/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 15 SURFACE (H251014-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

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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

BIG EDDY UNIT 248H

Project Name: BIG EDDY UN 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 17 SURFACE (H251014-17)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 18 SURFACE (H251014-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Samplin

Reported: 02/26/2025 Sampling Type: Soil Project Name: BIG EDDY UNIT 248H Sampling Condition: Coo

Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856

Sampling Date: 02/19/2025

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

Sample ID: CS 19 SURFACE (H251014-19)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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02/19/2025

Analytical Results For:

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

Received: 02/20/2025 Sampling Date:

Reported: 02/26/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Tamara Oldaker

Project Location: XTO 32.08526-103.93856

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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

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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

BIG EDDY UNIT 248H

Project Name: BIG EDDY UN 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

BIG EDDY UNIT 248H

Project Name: BIG EDDY UN 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	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 23 SURFACE (H251014-23)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 24 SURFACE (H251014-24)

Benzene* <0.050 0.050 02/22/2025 ND 2.07 104 2.00 0.150 0.150 0.050 0.	BTEX 8021B	mg	/kg	Analyze	d By: JH					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 02/22/2025 ND 2.45 123 2.00 1.2 Total Xylenes* <0.150 0.150 02/22/2025 ND 7.42 124 6.00 1.7 Total BTEX <0.300 0.300 02/22/2025 ND 7.42 124 6.00 1.7 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 RP Chloride <16.0 16.0 02/21/2025 ND 416 104 400 0.0 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RP GRO C6-C10* <10.0 10.0 02/21/2025 ND 220 110 200 4.5 DRO >C10-C28* <10.0 10.0 02/21/2025 ND 210 105 200 4.1 EXT DRO >C28-C36 <10.0 10.0 02/21/2025 ND Surrogate: 1-Chlorooctane 92.1 % 48.2-134	Benzene*	<0.050	0.050	02/22/2025	ND	2.07	104	2.00	0.192	
Total Xylenes* <0.150	Toluene*	<0.050	0.050	02/22/2025	ND	2.27	114	2.00	0.625	
Total BTEX	Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.45	123	2.00	1.20	
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 RP Chloride <16.0 16.0 02/21/2025 ND 416 104 400 0.0	Total Xylenes*	<0.150	0.150	02/22/2025	ND	7.42	124	6.00	1.78	
Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RP Chloride <16.0 16.0 02/21/2025 ND 416 104 400 0.0	Total BTEX	<0.300	0.300	02/22/2025	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RP Chloride <16.0 16.0 02/21/2025 ND 416 104 400 0.0 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RP GRO C6-C10* <10.0 10.0 02/21/2025 ND 220 110 200 4.5 DRO >C10-C28* <10.0 10.0 02/21/2025 ND 210 105 200 4.1 EXT DRO >C28-C36 <10.0 10.0 02/21/2025 ND Surrogate: 1-Chlorooctane 92.1 % 48.2-134	Surrogate: 4-Bromofluorobenzene (PIL	107	% 71.5-13	34						
Chloride <16.0 16.0 02/21/2025 ND 416 104 400 0.0 TPH 8015M mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC RP GRO C6-C10* <10.0	Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RP GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RP GRO C6-C10* <10.0 10.0 02/21/2025 ND 220 110 200 4.5 DRO >C10-C28* <10.0 10.0 02/21/2025 ND 210 105 200 4.1 EXT DRO >C28-C36 <10.0 10.0 02/21/2025 ND Surrogate: 1-Chlorooctane 92.1 % 48.2-134	Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
GRO C6-C10* <10.0 10.0 02/21/2025 ND 220 110 200 4.5 DRO >C10-C28* <10.0 10.0 02/21/2025 ND 210 105 200 4.5 EXT DRO >C28-C36 <10.0 10.0 02/21/2025 ND Surrogate: 1-Chlorooctane 92.1 % 48.2-134	TPH 8015M	mg	/kg	Analyze	d By: MS					
DRO >C10-C28* < 10.0 10.0 02/21/2025 ND 210 105 200 4.1 EXT DRO >C28-C36 <10.0 10.0 02/21/2025 ND Surrogate: 1-Chlorooctane 92.1 % 48.2-134	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 02/21/2025 ND Surrogate: 1-Chlorooctane 92.1 % 48.2-134	GRO C6-C10*	<10.0	10.0	02/21/2025	ND	220	110	200	4.50	
Surrogate: 1-Chlorooctane 92.1 % 48.2-134	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-Chlorooctadecane 91.2 % 49.1-148	Surrogate: 1-Chlorooctane	92.1	% 48.2-13	34						
· · ·	Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	18						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 25 SURFACE (H251014-25)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.08526-103.93856

mg/kg

Sample ID: CS 26 SURFACE (H251014-26)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/20/2025 Sampling Date: 02/19/2025

Reported: 02/26/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Tamara Oldaker

Project Location: XTO 32.08526-103.93856

Sample ID: CS 27 SURFACE (H251014-27)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

BIG EDDY UNIT 248H

Project Name: 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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

BIG EDDY UNIT 248H

mg/kg

Project Name: BIG EDDY UN 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

DILX GOZID	mg/	ng .	Allulyzo	u by. 511					
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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: 02/20/2025 Reported: 02/26/2025

BIG EDDY UNIT 248H

Project Name: Project Number: 03C1558453

Project Location: XTO 32.08526-103.93856 Sampling Date: 02/19/2025

Sampling Type: Soil Sampling Condition:

Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: CS 30 SURFACE (H251014-30)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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Celeg D. Keene

Relinquished By

Date:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

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

(Initials)

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:				X	BILL TO			ANALYSIS DECLIEST
	EDSOMIT, LLC				The second second			MINALIGIO MEGUESI
Project Manager: Tracy Hillard	r: Tracy Hillard			P.O. #:				
Address: 3122	Address: 3122 National Parks Hwy	Ŋ		Company	: XTO Energy	inc.		
city: Carlsbad	d	State: NM	Zip: 88220	Attn: Col	ton Brown			
Phone #: 575-	575-937-3906	Fax#:		Address:	3104 E. Gree	ne St		
Project #: 03C	03C1558453	Project Owner	XTO	city: Car	Isbad			
Project Name: B	Project Name: Big Eddy Unit 248H			State: N	M Zip: 88220			
Project Location	Project Location: 32.08526, -103.93856	3856		Phone #:	- 1			
Sampler Name: Azad Vojdani	Azad Vojdani			Fax#:				
NOSTNO BEN BYTHOU			W.	MATRIX PRESERV	RV. SAMPLING	NG		
Lab I.D.	Sample I.D.	Sample Depth (feet)	CONTAINERS GROUNDWATER WASTEWATER	DIL GLUDGE DTHER : ACID/BASE:	1	BTEX	CHLORIDE	
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2	C502	_		/	- 0	7 Shb	1	
Cvs	C503		- 3	7	0	1300		
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9	CSON				10	1006	7 7,	
10	CS 16	Ł	4 1 1	/	4	1004	\ \	
Company: XTO Energy Inc. Colty: Carlsbad State: NM Zip: 88220 Attn: Colton Brown Address: 3104 E. Greene St. Project Owner: XTO City: Carlsbad Attn: Colton Brown Address: 3104 E. Greene St. Project Name: Big Eddy Unit 248H Project Owner: XTO State: NM Zip: 88220 Project Location: 32.08526, -103.93856 Project Location: 32.08526, -10	National Parks Hy Id 937-3906 937-3906 21558453 3ig Eddy Unit 248H 1: 32.08526, -103.9 Azad Vojdani (\$ 61 C\$ 62 C\$ 62 C\$ 65 C	ect Owner (feet)	C (G)RAB OR (C)OMP. X P. SOIL X P. X P. X P. X P. X P. X D. X P. X D. X P. X D. X	SLUDGE	DAT S. 88	BTEX	TPH	

TMorrissey@ensolum.com, Thillard@ensolum.com, AVojdani@ensolum.com

Incident #:nAPP2418043567

P1140201001

Observed Temp. °C
Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:							
Ensolum, LLC	C		BILL TO	9		ANALYSIS REQUEST	
Project Manager: Tracy Hillard		-	#:O.4				
Address: 3122 National Parks Hwy	s Hwy	0	Company: XTO Energy Inc.	rgy Inc.			
city: Carlsbad	State:NM Zip:	Zip: 88220 A	Attn: Colton Brown				
Phone #: 575-937-3906			Address: 3104 E. G	Greene St.			
Project#: 03C1558453	Project Owner: XTO		City: Carlsbad				
Project Name: Big Eddy Unit 248H			State: NM Zip: 88220	20			
Project Location: 32.08526, -103.93856	03.93856	0					_
Sampler Name: Azad Vojdani		חב	Fax#				
FOR URLUST CALLY	ρ,	MATRIX	ESERV.	SAMPLING			
Lab I.D. Sample I.D.	Sample Depth (feet)		BASE:	X	ORIDE		
HES 1014	_	GROL	ACID/ ICE / C OTHE	™ BT	CHI		
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affiliates or sociassions arising out of or related to the perform	ngen, including with helieunder by Can	eus interrupti	ons, least of use, or loss of profits incurred by o telm is besent open any of the above stated in				
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	79.13, run samues	Sample Condition	CHECKED BY:	Turnaround Time: Thermometer ID 441	ne: Standard P	Sample Condition Observed Temp.	
LOUND SEN DOORSEL	† Cardinal cannot	Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinal absent com	s. Please email char	iges to celey,keer	ne@cardinallabs	m. som	

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: Tracy Hillard	r: Tracy Hillard			P.O.#:		\dashv				
Address: 3122	Address: 3122 National Parks Hwy	Hwy		Company: XTO Energy Inc.	rgy Inc.	_				
city: Carlsbad	ad .	State: NM	Zip: 88220	Attn: Colton Brown		_	_			
Phone #: 575	575-937-3906	Fax#:		Address: 3104 E. G	Greene St.	_	_			
Project #: 03(03C1558453	Project Owner:	T XTO			_				
Project Name: f	Project Name: Big Eddy Unit 248H	277.1		State: NM Zip: 88220	220	_	_	_		_
Project Location	Project Location: 32.08526, -103.93856	3.93856		*						
Sampler Name:	Azad Vojdani			Fax #:		-				
FOR LAB USE DALY			MATRIX	ESERV.	SAMPLING					
Lab I.D. Hes 1814	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	TPH	CHLORIDE			
٤	(521	Sufface	7	8	-		<			1
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52	(525)		111		(230)	4	γ.			
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77	CS 27			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1234 /		-			
25	C\$28			_	1236		7			
25	CS 29	<u></u>		1	1238 /	7.	<			
N.SAGE NOTE: Labbity and Gamages, Cardinal's labbinary including those for negligence and	Camages, Cardeni's lately and Those for negligence and any of	rational exclusive remody for any or har cause valuabaseer what are deep	destroy and standard records and the contract of the contract	shall be limited to the amount and by Cardinal within 30 days	paid by the client for the effect completion of the appli	2	<			
Relinquished By	Out of an interest the performs	Date:	Received By	on it based upon any of the above stated in	Verbal Result:	□ Yes	100.8	Add'l Phone #:		
1		Time:	Hound	Malesc	TMorrissey@ensolum.	ensolun	n.com, Thillan	om, Thilland@ensolum.com, AVo	TMorrissey@ensolum.com, Thilland@ensolum.com, AVojdani@ensolum.com	
Relinquished By:		Date: Time:	Received By:	The state of the s	REMARKS: Incident #:nAPP2418043567	APP24	18043567	CC P1140201001	04	
Delivered By: (Circle One) Sampler - UPS - Bus - Other.		Constitut Temp, 'C	Sample Condition Cool Mact	es CHECKED BY:	Turnaround Time:	4	Standard		60	
			7	No	Correction Factor	7	+0,5c	O No	No Corrected Temp. "C	



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, 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)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 33 SURFACE (H251071-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	18						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 34 SURFACE (H251071-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 35 SURFACE (H251071-05)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 36 SURFACE (H251071-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 37 SURFACE (H251071-07)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

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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

BIG EDDY UNIT 248H

Project Name: BIG EDDY UN 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)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	18						

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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

BIG EDDY UNIT 248H

Project Name: 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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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)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: CS 41 SURFACE (H251071-11)

BTEX 8021B

DILX GOZID	11197	ng .	Alldiyzo	a by. 511					
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	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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02/20/2025

Soil

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:
Reported: 02/27/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 42 SURFACE (H251071-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 43 SURFACE (H251071-13)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/24/2025 Reported: 02/27/2025

BIG EDDY UNIT 248H

Project Name: 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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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 45 SURFACE (H251071-15)

RTFY 8021R

B1EX 8021B	mg/	кg	Апатуге	a 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 46 SURFACE (H251071-16)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: CS 47 SURFACE (H251071-17)

RTFY 8021R

Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD	BIEX 8021B	mg,	/ kg	Anaiyze	а ву: ЈН					
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 5.83 97.1 6.00 0.296 Surrogate: 4-Bromofluorobenzene (PID 96.3 % 71.5-134 Chloride, SM450OCI-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 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 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 198 99.1 200 5.56 EXT DRO >C28-C36 < 10.0 10.0 02/25/2025 ND	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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 5.83 97.1 6.00 0.296 Surrogate: 4-Bromofluorobenzene (PID 96.3 % 71.5-134 Chloride, SM4500Cl-B mg/ks Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0 16.0 02/25/2025 ND 400 100 400 3.92 TPH 8015M mg/ks Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 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	Benzene*	<0.050	0.050	02/26/2025	ND	2.06	103	2.00	0.0715	
Total Xylenes* <0.150 0.150 02/26/2025 ND 5.83 97.1 6.00 0.296 Total BTEX <0.300	Toluene*	<0.050	0.050	02/26/2025	ND	2.10	105	2.00	0.0321	
Total BTEX <0.300 0.300 02/26/2025 ND Surrogate: 4-Bromofluorobenzene (PID 96.3 % 71.5-134 Chloride, SM4500Cl-B mg/ky Analyzed By: AC Analyte Result Reporting Limit Analyzed By: AC Chloride <16.0	Ethylbenzene*	<0.050	0.050	02/26/2025	ND	1.99	99.4	2.00	0.272	
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 No Recovery True Value QC RPD Chloride <16.0	Total Xylenes*	<0.150	0.150	02/26/2025	ND	5.83	97.1	6.00	0.296	
Chloride, SM4500Cl-B mg / kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0	Total BTEX	<0.300	0.300	02/26/2025	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 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 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: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
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 GRO C6-C10* <10.0	Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
TPH 8015M mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 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	Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
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	TPH 8015M	mg	/kg	Analyze	ed By: ms					
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	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 02/25/2025 ND Surrogate: 1-Chlorooctane 100 % 48.2-134	GRO C6-C10*	<10.0	10.0	02/25/2025	ND	193	96.7	200	8.61	
Surrogate: 1-Chlorooctane 100 % 48.2-134	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-Chlorooctadecane 104 % 49.1-148	Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
	Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 02/24/2025
 Sampling Date:
 02/20/2025

 Reported:
 02/27/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 48 SURFACE (H251071-18)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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02/20/2025

Soil

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 49 SURFACE (H251071-19)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 50 SURFACE (H251071-20)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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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

BIG EDDY UNIT 248H

Project Name: 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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02/20/2025

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil Project Name: **BIG EDDY UNIT 248H** Sampling Condition:

Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 53 SURFACE (H251071-23)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 02/24/2025
 Sampling Date:
 02/20/2025

 Reported:
 02/27/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 54 SURFACE (H251071-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 %	6 49.1-14	8						

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02/20/2025

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 68 SURFACE (H251071-26)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Applyzod By: 14

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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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/20/2025

Reported: 02/27/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 73 SURFACE (H251071-28)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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02/20/2025

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 74 SURFACE (H251071-29)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celeg D. Keene



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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CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

AND ANALYSIS REQ

Company Nam	Company Name: Ensolum, LLC			BILLTO	3	
Project Manage	Project Manager: Tracy Hillard			P.O. #:		ANALYSIS REQUEST
Address:601	Address: 601 N Marienfeld Street, suite 400	et, suite 400		Company: XTO Energy	DYN	
city: Midland		State: TX	zip: 79701	Attn: Colton Brown	1 (9)	
Phone #: 575-937-3906	937-3906	Fax#:		Address:		
Project #: 03C1558453	1558453	Project Owner:	ä	Clv:		
Project Name:	Project Name: Big Eddy Unit 248H	1		State: NM 710-		
Project Locatio	Project Location: 32.62085,-103.83132	.83132				
Sampler Name:	Sampler Name: Uriel Santillana			Fax #:	e	
YOR LAB UBS DALY			MATRIX	ESERV.	SAMPLING &	
Lab I.D. Hts/07/	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE/COOL OTHER:	CHION: BTEX TPH	
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waiyee. All diams, including those to write. In no exert shall Cardinal be a diffiation or successors wrang out at or	including those his negligation and any or shall Cardinal be liable for lockering or on the shall card of or related to the performa-	tranent extraine remedy for any or wir cause whatsoever shall be dean neequental damages; including with fair of services hereunder by Cards	retorded for alty claims verlags alteritue tassed to continue or byt, stags retor shall be demined wasved unions made in verlags and excessed by gent, including velloud finelation, business interruptions, loss of use, o securidae by Cardinal, regardiess of whether such claim is issued upon	te limited to the amount Cardinal within 30 days I form of profits incurred in	past by the claim for the other completion of the applicable by claim, to substitution.	
7	and .	Time: 1830	Spedkigney	ney	Verbal Result: Yes No All Results are emailed. Please pro thillard@ensolum.com kthomass	s □ No AddTPhone #: Please provide Email address: kthomason@ensolum.com usantillana@ensolum.com
Relinquished By:		Date: Time:	Received By:	0	Cost Code: 1140201001	Incident Number nAPP2418043567
Sampler - UPS - Bus - Other:		On Tame "C	Sample Condition Cool Intact Cool Intact Cool Intact	on CHECKED BY:	Turnargund Time: Standard	
TOTOGO COOL	12/2001 253		LI NO I NO		Carrentian Feman -0.5°C	No No Corrected Temp, *C

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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P.O. #: Company: XTO Energy Attn: Colton Brown
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Hallard@ensolum.com kthomason@ensolum.com usantillana@ensolum.com
Cost Code: 1140201001
CHECKED BY: Turnaround Time: Standar
RESERV RESERV OTHER: OTHER:

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Relinquished By: Delivered By: (Circle One) Relinquished By Project Location: 32.62085,-103.83132 Project #: 03C1558453 Phone #: 575-937-3906 city: Midland Project Manager: Tracy Hillard Sampler Name: Uriel Santillana Project Name: Big Eddy Unit 248H Address: 601 N Marienfeld Street, suite 400 Company Name: Ensolum, LLC Lab I.D. pler - UPS - Bus - Other: 200 3 N Sample I.D. (575) 393-2326 FAX (575) 393-2476 C5 54 568 6573 6 Seher Surface Date: Fax #: Project Owner: State: TX Depth (feet) 1330 Received By: 6 (G)RAB OR (C)OMP Zip: 以# CONTAINERS 79701 GROUNDWATER Cool Intact Sample Condition WASTEWATER SOIL MATRIX OIL SLUDGE OTHER City: Phone #: State: NM P.O. # Attn: Colton Brown # XB Company: XTO Energy Address: ACID/BASE PRESERV CHECKED BY ICE/COOL OTHER BILL TO Zip 2/20/25 DATE SAMPLING clerit fix su Harry O. Skush thillard@ensolum.com kthomason@ensolum.com usantillana@ensolum.com All Results are emailed. Please provide Email address 1310 1300 1225 Cost Code: 1140201001 Verbal Result: 1255 0 121 1245 315 1235 1230 TIME pletton of the applicable oride ☐ Yes E O No Incident Number nAPP2418043567 Add'I Phone #: ANALYSIS Yes Yes Bacteria (only) Sample Condition Cool Intact Observed Temp. REQUEST Observed Temp, °C Corrected Temp, °C



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



02/21/2025

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

A I J D. ... 711

Project Location: XTO 32.62085-103.83132

Sample ID: CS 88 SURFACE (H251072-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	96.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 02/24/2025
 Sampling Date:
 02/21/2025

 Reported:
 02/27/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 87 SURFACE (H251072-02)

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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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Sample Received By:

02/21/2025

Shalyn Rodriguez

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:
Reported: 02/27/2025 Sampling Type:

Reported: 02/27/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

 Project Number:
 03C1558453

 Project Location:
 XTO 32.62085-103.83132

Sample ID: CS 86 SURFACE (H251072-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2025	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 85 SURFACE (H251072-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: CS 81 SURFACE (H251072-05)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: CS 82 SURFACE (H251072-06)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 84 SURFACE (H251072-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	02/25/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 80 SURFACE (H251072-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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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	Analyze	d 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	% 71.5-13	4						
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	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: CS 78 SURFACE (H251072-11)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.1	% 49.1-14	8						

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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	Analyze	d 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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.0	% 49.1 - 14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 76 SURFACE (H251072-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025 Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 75 SURFACE (H251072-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 71 SURFACE (H251072-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: CS 70 SURFACE (H251072-16)

BTEX 8021B

DILX GOZID	11197	ng .	Allulyzo	u by. 511					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 69 SURFACE (H251072-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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02/21/2025

Soil

Analytical Results For:

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

Received: 02/24/2025 Sampling Date: Reported: 02/27/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 66 SURFACE (H251072-18)

	covery	coverv							
		,	ery	Tr	True	ue Value	QC	RPD	Qualifier
	.9	3.9				2.00		0.883	
	.5	7.5				2.00		1.16	
	.0	4.0				2.00		1.15	
	.7	1.7				6.00		1.21	
True	covery	covery	ery	Tr	True	ue Value	QC	RPD	Qualifier
)4	04				400		3.77	
True	covery	covery	ery	Tr	True	je Value	QC	RPD	Qualifier
	.4	4.4				200		3.99	
	.0	3.0				200		4.86	
	.4	4.4	,		_	Tru	200		200 3.99

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: CS 65 SURFACE (H251072-19)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 64 SURFACE (H251072-20)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1	% 49.1-14	18						

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02/21/2025

Soil

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:
Reported: 02/27/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 63 SURFACE (H251072-21)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: CS 61 SURFACE (H251072-22)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 59 SURFACE (H251072-23)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil Project Name: **BIG EDDY UNIT 248H** Sampling Condition:

Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 60 SURFACE (H251072-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	18						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 55 SURFACE (H251072-25)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	18						

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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

BIG EDDY UNIT 248H

Project Name: 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 02/24/2025 Sampling Date: 02/21/2025

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 57 SURFACE (H251072-27)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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02/21/2025

Analytical Results For:

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

Received: 02/24/2025 Sampling Date:

Reported: 02/27/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: CS 58 SURFACE (H251072-28)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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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 Location: XTO 32.62085-103.83132

03C1558453

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS 62 SURFACE (H251072-29)

Project Number:

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	18						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	ľ			BILL TO		ANALISIS	Old Intractor	
Company Name: Ensolum, LLV	Ensoluin, LLV			P.O. #:				
Adress Sot N N	Address: 501 N Marienfeld Street, Suite 400	te 400		Company: XTO Energy, Inc.	Inc			
City: Midland		State: TX	Zip: 79701		2		_	
Phone #: 575-937-3906	37-3906	Fax#:		Address: 3104 E Greene	o o		_	
project #: 03C	Project #: 03C155488	Project Owner:	r: XTO Energy	City: Carlsbad		_	_	
Project Name: B	Project Name: Big Eddy Unit 248H	27.0		State: NM Zip: 88220				
Project Location	Project Location: 32.62085,-103.83132	3132		Phone #:		_		
Sampler Name: Evan Roe	Evan Roe			Fax #: SAMPLING	LING			
ATHO SEG BYT BOX						00		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH 8015 BTEX 8021	Chloride 450		
don min	CS 88	Surface	-	2/21/25	V V Stb			
N-	cs 87	Surface	0 1	20170	× × × × ×	` ` `		
žu.	CS %	Surface	0 1	C211777 A	177 V V	_		
+	00	Surface		20170	17.7 ×	_		
^	CS %1	Surface	0	V 55150	, X			
6	CS 8:2	Surface	01	20100	, , ,	\\ -		
74	CS %4	Surface	C 1 V	V 200100	\ \ \ \ \	``		
000	CS SS	Surface	01	V 2/21/25	10 C	` `		
9	CS 80	Surface	-	201000	1125	< "		
AT NOTE LINES	CS 79 and Damages. Cardinate liability an	Surface d slavin sections sensor for any but cause whetherever shall be de-	100	urated, whether bease in curricular or tor, shall be limited to the amount jets? a wained unless made in wifely and reserved by Condition within 10 draps after or wained unless made in wifely and reserved to large of worth sources of the	5 6 7			
saryon, to no event shall addition or successors an	that of or related to the	ance of services hereunder?	eduting wheat industrial between the same second	9	Verbal Result:	ON D	Add'I Phone #:	
Relinquished By:	A ROY	Time 1230	Source	pumpial	BBeilit@ensolum.com.	[Morrissey@ensolu	m, TMorrissey@ensolum.com, <u>THilligrd@ensolum.com</u>	nsolum com
Relinquished By:	By:	Date: Time:	Received By:	(De la Contra Con	Service Condition
Delivered By: (Circle One)	Delivered By: (Circle One)	O Tank	Sample Condition Cool Intact Cool Intact	Condition CHECKED BY:	Turnaround Times	Rush (Cool Intact	Observed Temp. °C Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



2000	SS 65	SS 65	CS 65	82 83	8 88 8	SSS	200		100 CS / 100 CS	CS 76	-	10 CS 75	13 CS 71	17 CS 77	CS 78	Lab I.D. Sample I.D.	FOR LAB USE ONLY	Sampler Name: Evan Roe	Project Location: 32.62085,-103.83132	Project Name: Big Eddy Unit 248H	Project #: 03C155465 8453	Phone #: 575-937-3906	City: Midland	Address: 601 N Marienfeld Street, Suite 400	Project Manager:	Company Name: Ensolum, LLC	(575) 393-2326
Time:	Time: 2342	Sarara.	The same of the last of the la	oon wat any other cause whatsoever shall acciontation consequental demages, inch to the performance of sendons harvorides	3	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		Surface	I.D. Depth (feet)			-103.83132	it 248H	F53 Project Owner:	Fax#:	State: TX	reet, Suite 400		-	FAX (575) 3
	Received By:		S Received By:	ill be dyemed wased users mann in early and revenue of users usery whitse imbation, business manuptions, basis of use, or less of by Candrai, regardless of whether such date is based upon any	for any claim arrang whether based in	_				-		0 1	0	0 1	0 1	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MATRIX				ar: XTO Energy		Zip: 79701				93-2476
		ACC LOS	The second	d profile incurs	E 20 74	2/21/25	V 2/21/25	V 2/21/25	V 2/21/25	V 2/21/25	V 2/21/25	V 2/21/25	V 2/21/25	V 2/21/25	V 2/21/25	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER:	PRESERV	Fax#:	Phone #:	State: NM Zip: 88	Isbad	Address: 3104 E Greene St	Attn: Colton Brown	Company: XTO Energy, Inc.	P.O. #:	BILL TO	
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Bacteria (only) Sample Condition			THillard@ensolum.com			-																					EST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(575) 393-2326 F	FAX (575) 393-2476	0			١		-		١	١		SISA IVNO	SIS REQUEST	EST
Company Name: Ensolum, LLC	Ensolum, LLC							BILL 10		1	1	1			
Project Manager:					-	P.O. #	100			_		_			
Address: 601 N N	Address: 501 N Marienfeld Street, Suite 400	uite 400			0	Comp	any: X	Company: XTO Energy, Inc.	Inc						
City: Midland		te: TX	Zip: 79701	79701		Attn:	Colton	Attn: Colton Brown				_			
Phone #: 575-937-3906		Fax#:				Addre	\$5: 31	Address: 3104 E Greene St	St.	_				_	
Project #: 03C155-608-7		FS roject Owner:		XTO Energy		City:	Carlsbad	bad				_			
Project Name: Bi	124	I				State:	M	Zip: 88220				_		_	
Project Location	Project Location: 32.62085,-103.83132	33132				Phone #:	*					_			
Sampler Name: Evan Roe	van Roe					Fax #:						_		_	
FOR USE ONLY					MATRIX	P	PRESERV	SAMPLING	ING			-			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE	OTHER: ACID/BASE:	ICE / COOL-		TIME .	TPH 8015	BTEX 8021	Chloride 4500			
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analyses, All claims industriation, in so sweet shall C	eg three for negligence and any or audinal be liable for incidental or o	their rayse whatboover shall be consequental damages, including	permati	Elistation bas	ness interruptions.	to beset a	luse of use, or has of profits income to beset upon any of the above	profits incurred by of the above stated ins	W 12	, 1		ı			
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No von	1 6 000	Date:		Received By:	X 00.7	2	2	9	REMARKS:	S					
Relinquished By:	*	Time:	3		,			(1			Desirate (only)	Sample Condition
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Bus - Other:	Carrent Temp. 'C	007	24: 8	Sample Condition Cool Intact A Yes Yes	E ST	CHEC	CHECKED BY:	Turnaround Time	To Ha	42.	0.3 Standard	468	Cool Intact	Bacteria (only) Campre Common Cool Infact Observed Temp. *C Yes Yes No Corrected Temp. *C



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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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 06 2.5' (H251384-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	109	% 40.6-15	3						

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Celeg D. Kreene



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

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

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	104	% 40.6-15	3						

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Celeg D. Keene



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 Tamara Oldaker Project Number: 03C1558453 & 03C1558587 Sample Received By:

Project Location: XTO 32.62085-103.83132

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105 9	% 40.6-15	3						

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Celey D. Keene



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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

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

BTEX 8021B

DILX GOZID	ilig/	, kg	Andryzo	.u Dy. 311					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	109	% 40.6-15	3						

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Celey D. Keene



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 18 2' (H251384-05)

BTEX 8021B	mg/kg		Analyze	d By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 9	% 71.5-13	4							
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/11/2025	ND	416	104	400	7.41		
TPH 8015M	mg/	'kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/10/2025	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 5	% 44.4-14	5							
Surrogate: 1-Chlorooctadecane	110 9	% 40.6-15	3							

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Celey D. Keine



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	98.3	% 40.6-15	3						

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Celey D. Keene



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 Tamara Oldaker Project Number: 03C1558453 & 03C1558587 Sample Received By:

Project Location: XTO 32.62085-103.83132

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	107 9	% 40.6-15	3						

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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 Tamara Oldaker Project Number: 03C1558453 & 03C1558587 Sample Received By:

Project Location: XTO 32.62085-103.83132

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	108 9	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea 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 (F	PID 127	% 71.5-13	14						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	106	% 40.6-15	3						
Surrogate: 1-Chlorooctadecane	106	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	111	% 40.6-15	3						

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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 BIG EDDY UNIT 248H & 249H 03C1558453 & 03C1558587

Project Location: XTO 32.62085-103.83132 Sampling Date: 03/07/2025

Sampling Type: Soil

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

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

Project Name:

Project Number:

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.3	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.6	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	94.9	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.6	% 40.6-15	3						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Relinquished By: Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) TEASE NOTE: Sampler Name: Jesse Dorman Project Location: Project Manager: Tracy Hillard roject #: Phone #: Address: 3122 National Parks Hwy Company Name: Lab I.D. 575-937-3906 03C1558453 & 03C1558587 Big Eddy Unit 248 H & 249H Sample I.D. 32.62085,-103.83132 Ensolum, LLC 815 572.0/28 EN 3 and man Date: Time: Fax #: Sample Depth State: NM Project Owner: (feet) Received By: (G)RAB OR (C)OMP CONTAINERS 88220 XTO GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER Fax # Phone #: State: NM Zip: 88220 city: Carlsbad P.O. #: Address: 3104 E. Green St. Attn: Colton Brown Company: XTO Energy Inc. ACID/BASE PRESERV CHECKED BY: OTHER BILL TO 17/25 DATE SAMPLING by there, its subsidiaries Turnaround Time: All Results are emailed. Verbal Result BBeiill@ensolum.com 541 Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071 310 8 SCOT OF THE A 20 BATTO CANADA BTEX Cost Center: 1140201001 TPH Standard By Please provide Email address: CHLORIDE TMorrissey@ensolum.com. Add'l Phone #: ANALYSIS Bacteria (only) REQUEST kthomason@ensolum.com Thillard@ensolum.com Observed Temp. "C

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

Corrected Temp, *C

FORM 006 R 3.2 T0/07/21

Sampler - UPS -

Bus - Other:

FORM (00) R 3 2 10/03/21

Delivered By: (Circle One)

1 3 --- C

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only) Sample Condition

Observed Temp. "C

Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071

Cost Center: 1140201001

0

Phone #: Project Manager: Tracy Hillard Address: 3122 National Parks Hwy Company Name: 575-937-3906 03C1558453 & 03C1558587 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC Fax # State: NM Project Owner: XTO city: Carlsbad P.O. #: Attn: Colton Brown Address: 3104 E. Green St Company: XTO Energy Inc. BILL TO ANALYSIS REQUEST

Relinquished By: Relinquished By inalyses. All claims including those service. In no event shall Cardinal by START NOTE: Under and Sampler Name: Jesse Dorman Project Location: 32.62085,-103.83132 Project Name: Lab I.D 3 Sample I.D. Big Eddy Unit 248 H & 249H 526 205 165 S2-0-28 Sample Depth (10et) Received 6 C(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER Fax #: Phone #: State: NM Zip: 88220 ACID/BASE OTHER 3/7/25 DATE ad by client, in subsidiaries SAMPLING All Results are emailed. by the class REMARKS: BBesingensolum.com 350 ledon of the app BTEX L TPH Please provide Email address: CHLORIDE TMorrissey@ensolum.com, DNo Add'l Phone #: kthomason@ensolum.com Thilland@ensolum.com

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com 10-3/10/25



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 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

Applyand By 14

Project Location: XTO 32.62085-103.83132

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

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.4	% 40.6-15	3						

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Celey D. Keine



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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

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

BTEX 8021B

	<u> </u>								
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.0	% 40.6-15	3						

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Celey D. Keene



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: Sample Received By: Tamara Oldaker 03C1558453 & 03C1558587

Project Location: XTO 32.62085-103.83132

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.6	% 40.6-15	3						

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Celey D. Keene



03/10/2025

Analytical Results For:

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

Received: 03/11/2025 Sampling Date:
Reported: 03/12/2025 Sampling Type:

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

ma/ka

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

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.5	% 40.6-15	3						

Applyzod By: 14

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Celey D. Keine



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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

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

BTEX 8021B

	<u> </u>								
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.2	% 40.6-15	3						

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Celey D. Keine



Sample Received By:

03/10/2025

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

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

Received: 03/11/2025 Reported: 03/12/2025

03/11/2025 Sampling Date:
03/12/2025 Sampling Type:
BIG EDDY UNIT 248H & 249H Sampling Condition:

Project Location: XTO 32.62085-103.83132

03C1558453 & 03C1558587

mg/kg

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

Project Name:

BTEX 8021B

Project Number:

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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit 16.0	Analyzed 03/12/2025	Method Blank ND	BS 464	% Recovery 116	True Value QC 400	0.00	Qualifier
•		16.0	03/12/2025			,	·		Qualifier
Chloride	224	16.0	03/12/2025	ND		,	·		Qualifier Qualifier
Chloride TPH 8015M	224 mg/	16.0 kg	03/12/2025 Analyze	ND d By: MS	464	116	400	0.00	
Chloride TPH 8015M Analyte	mg/ Result	16.0 kg Reporting Limit	03/12/2025 Analyze Analyzed	ND d By: MS Method Blank	464 BS	% Recovery	400 True Value QC	0.00	

Analyzed By: JH

Surrogate: 1-Chlorooctane 84.0 % 44.4-145
Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Celeg D. Keene



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	92.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.6	% 40.6-15	3						

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Celey D. Keine



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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Celeg D. Keene

FORM-006 R 3 2 10/03/21

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

Ac -3/11/25

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

	10.01 000 0000	0.157-CRC (C.I.C.) VW.1	4/6				
Company warne:	Ensolum, LLC			BILL TO		ANALYSIS REQUEST	QUEST
Project Manager: Tracy Hillard	: Tracy Hillard			P.O. #			
Address: 3122 N	Address: 3122 National Parks Hwy	wy		company: XTO Energy Inc.	Inc.		
city: Carlsbad		State:NM	Zip: 88220	Attn: Colton Brown			
Phone #: 575-9	575-937-3906	Fax #:		Address: 3104 E. Green St	-St.		
Project #: 03C	03C1558453 & 03C1558577	577 Project Owner:	wner: XTO	City: Carlsbad			
Project Name:	Big Eddy Unit 248 H	248 H & 249H		State: NM Zip: 88220			
Project Location:	32.62085,-103.83132	3132		Phone #:			
Sampler Name: Jesse Dorman	esse Dorman			Fax #	_		_
ATMO 35/1 BV1 BOx			MATRIX	PRESERV. SAMPLING	۵		
Lab I.D. H2574125	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH CHLORIDE		
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al	50M3	0-2.51			160		
N	25	12		77	35		
7	6112	<	4	4	27		1
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PLEASE NOTE: Leading and Dans	amages Cardina's lability and o	ferrif's exclusive tensedy by any dain	and the second of the second o				
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Pr	1	341.25	nacewed by:	May Assa	Al-Results are emailed. Please pro	Please provide Email address: Thiorissey@ensolum.com	Thillard@ensolum.com
Relinquished By:		Date:	Received By:	REN	REMARKS: Cost Center: 1140201001	01001	and the second of the second o
Delivered By: (Circle One)		Onserved Temp. 10	Sample Condition	CHECKED BY: T	Turneround Time: Standard Recter's (only) Sannin Condition	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:		Z 3, " " L T " " " C Z		(Initials)	#	- E	Cool Intact Observed Temp. °C
					36701 240 1001	L	Corrected Temp, °C



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/ga/lab-accred-certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 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	Analyze	d 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 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.8	% 40.6-15	3						

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Celeg D. Keene



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.1	% 40.6-15	3						

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Celey D. Keine



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.3	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.7	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.6	% 40.6-15	3						

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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 Alyssa Parras Project Number: 03C1558453 & 03C1558587 Sample Received By:

Project Location: XTO 32.62085-103.83132

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	120 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.1	% 40.6-15	3						

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Celeg D. Keene



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

ma/ka

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)

RTFY 8021R

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Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/14/2025	ND	2.09	104	2.00	11.0	
<0.050	0.050	03/14/2025	ND	2.20	110	2.00	6.41	
<0.050	0.050	03/14/2025	ND	2.34	117	2.00	0.749	
<0.150	0.150	03/14/2025	ND	7.16	119	6.00	0.598	
<0.300	0.300	03/14/2025	ND					
110 9	71.5-13	4						
mg/	'kg	Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	03/17/2025	ND	416	104	400	3.77	
mg/	'kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/14/2025	ND	194	97.2	200	9.16	
<10.0	10.0	03/14/2025	ND	183	91.6	200	11.7	
<10.0	10.0	03/14/2025	ND					
83.9	% 44.4-14	5						
79.7	% 40.6-15	3						
	<0.050 <0.050 <0.050 <0.150 <0.300 110 9 mg/ Result 144 mg/ Result <10.0 <10.0 <83.9 9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 T1.5-13 mg/kg Result Reporting Limit 16.0 mg/kg Result Reporting Limit 16.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 44.4-14	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Applyzod By: 14

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Celey D. Keene



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 Sample Received By: Project Number: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

Sample ID: FS 56 6' (H251525-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.4	% 40.6-15	3						

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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 57 6' (H251525-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.9	% 40.6-15	3						

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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)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	120 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.9	% 40.6-15	3						

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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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101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	AX (575) 393-247	6			ANALYSIS RECIEST	
Company Name:	Ensolum LLC			BILL TO		All All All All All All All All All All	
Project Manager: Tracy Hillard	Tracy Hillard			P.O. #:			
Address: 3122 N	Address: 3122 National Parks Hwy	Ŋ		company: XTO Energy Inc.	gy Inc.		
city: Carlsbad		State: NM	Zip: 88220	Attn: Colton Brown			
**	575-937-3906	Fax#:		in	Green St.		
	03C1558453 & 03C1558577	77 Project Owner:	er: XTO	City: Carlsbad			
9	Big Eddy Unit 248 H & 249H	I		State: NM Zip: 88220	20		
Project Location:		3132		Phone #:			
Sampler Name: Jesse Dorman	90			1			
Sampler Malifie.	0.00		MA:	MATRIX PRESERV. SAN	SAMPLING		
Lab I.D.	Sample I.D.	Sample Depth (feet)	G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER:	BTEX TPH CHLORIDE		
CWE TO SE	1524 9257 1827 1827	بو	- Jan		2000 m		
nev	£2525	14			288 888 888 888 888 888 888 888 888 888		
200	4537	-0			18561		
PLEASE NOTE: Labelly or PLEASE NOTE: Labelly or	6.0	By and clearly exclusive sensely for any any other cause whatsoner shall be don-	. 3 21	contribut or tot, shall be limited to the en- writing and received by Carriford within 100 ft receiver, these of use, or lose of profits incur	And paid by the closes for the pay after completen of the explication and by closes, its substitutions.		
Relinquished By:	Imquished By:		Received By:	such claim is based upon any of the above states	2		Thillard@ensolum.com kthomason@ensolum.com
Relinquished By:	, (Date	Received By:	J. G.	REMARKS: Cost Center: 1140201001	32147637, NAPF	235, NAPP2502042071
Delivered By: (Circle One)	ircle One)	(Cho, 100)		Sample Condition CHECKED BY: Cool Infact (Initials) Yes Yes	Turnaround Time: Standard Rush Thermometer ID #13+10- 246	Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. No. No. No. Corrected Temp.	ample Condition Observed Temp. *C Corrected Temp. *C
Campler . IIPS . Bus - Other:	Bus - Other:	Carracted Tamps C	1	7	١.	No No	rected terrip.

FCRM-006 R 3.2 10/07/21



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/ga/lab-accred-certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: FS 44 6 (H251580-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	85.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.0	% 40.6-15	3						

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Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: FS 59 4-7' (H251580-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.3	% 40.6-15	3						

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Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558577 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: FS 60 4-7' (H251580-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.0	% 40.6-15	3						

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03/17/2025

Soil

Analytical Results For:

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

Received: 03/18/2025 Sampling Date:

Reported: 03/19/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: FS 61 4-7' (H251580-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.3	% 40.6-15	3						

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Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558577 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64.1	% 40.6-15	3						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Relinquished By:

Time:

Received By:

Received By:

Verbal Result: Yes
All Results are emailed.

SNo Add'l Phone #: Please provide Email address:

TMorrissey@ensolum.com,

Thillard@ensolum.com kthomason@ensolum.com

REMARKS:

Incident ID: NAPP2418043567, nAPP245Q147637, NAPP2432531235, NAPP2502042071

Standard

Bacteria (only) Sample Condition dool Intact Observed Temp. "C Cost Center: 1140201001

BBeilli@ensolum.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other

Oncerved Temp.

Sample Condition

CHECKED BY

FORM 006 R 3 2 10/07/21

Relinquished By:

eral/pain. All claims including those for resp service. In no exercishall Cardinal be liable



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

(575) 393-2326 FAX (5/5) 393-24/6	X (5/5) 393-24/0			
Company Name:		BILL TO	ANAL	ANALYSIS REQUEST
Project Manager: Tracy Hillard		P.O.#:		
Adms: 3122 National Parks Hwy	,	company: XTO Energy Inc.		
City Carlsbad	State: NM Zip: 88220	Attn: Colton Brown		
575-937-3906		Address: 3104 E. Green St.		
	7 Project Owner: XTO	City: Carlsbad		
Project #: Vaccionate a contraction		State: NM 7in: 88220		
Project Name: Big Eddy Unit 248 H & 249H	8 H & 249H	State: NM Zip: 00220		
Project Location: 32.62085,-103.83132	132	Phone #:		
Sampler Name: Jesse Dorman		Fax #:		
200 - 40 - 100 Object	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH CHLORIDE	
9 fs44	4-7' 64 1	1 KO) (0)		
3 8560	-	1916		\
2 FS47	× × ×	+ + 0/0	**	\
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	\$			
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

XTO 32.62085-103.83132

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Applyand By 14

Sample ID: FS 64 3' (H251581-01)

Project Location:

DTEV 0021D

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	85.9	% 71.5-13	4						
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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64.7	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

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

Received: 03/18/2025 Reported:

Sampling Date: 03/17/2025 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Project Number: 03C1558453 & 03C1558577 Project Location: XTO 32.62085-103.83132

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 65 3' (H251581-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	85.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.1	% 40.6-15	3						

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Celeg D. Keene



03/17/2025

Soil

Analytical Results For:

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

Received: 03/18/2025 Sampling Date:

Reported: 03/19/2025 Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 66 3' (H251581-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.1	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

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

Received: 03/18/2025 Sampling Date: 03/17/2025

Reported: 03/19/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: FS 67 3' (H251581-04)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	85.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.7	% 40.6-15	3						

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Celey D. Keene



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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Celeg D. Keene

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Onserved Temp. 'C

5

FORM 006 R 3 2 10/07/21

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(5/5) 353-2320 (5/5) 500 and (5/5)		BILL TO	ANALYSIS REQUEST
Project Manager: Tracy Hillard		P.O. #:	
Adves: 3122 National Parks Hwy	wy	company: XTO Energy Inc.	10.
Carlsbad	State: NM Zip: 88220	Attn: Colton Brown	
Phone #: 575-937-3906		Address: 3104 E. Green St.	St
8	3577 Project Owner: XTO	city: Carlsbad	
Big Eddy Unit 248 H & 249H	I	State: NM Zip: 88220	
ž	83132	Phone #:	
lesse Doman		Fax #:	
Sampler Name: Jesse Common	MATORY	PRESERV SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. If CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	DATE	BTEX TPH CHLORIDE
505	1	X X X X X X X X X X X X X X X X X X X	
4 5567	¢ ¢	+	255
	00		
PLEASE NOTE: Lability jack damages. Cardent's leadily a snappes. All claims including those for regigence and any	EASE NOTE: Liability partitionapes. Cardinal's leadily and client's well-save remoty for any client smalling whether based in contract or tors, shall be lented to the amount paid by the client for the applicable appear. All clients encloding those for migglance and any later course wholesower shall be deemed expend unless made in entiring and respected by Cardinal within 30 days after completion of the applicable appear. All clients enclosing those for migglance and any later course wholesower provide provide any client, the substitution is applicable.	contract or tark, shall be latified to the amount paid by the client has the energy and received by Cardinal within 30 days after completion of the e- uption, loss of use, or loss of postte recurred by client, its subsidiaries	ont pased by the chiese flow that ye affiliar completation of the applicabilitie of by chiesel, this submidiations,
Relinquished By:	Dates 3:18 35 Received By:	obind no	All Result: Yes No Add1 Phone #: Verbal Result: Yes No Add1 Phone #: Thillard@ensolum.com Thorse service Email address: Thillard@ensolum.com
()	1238 0800	ORCHIT OF	

Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071

Bacteria (only) Sample Condition Cool Intact Observed Temp. *C



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: FS 68 3' (H251704-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	a 2 y : 3 : 1					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	66.3	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

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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 74 3' (H251704-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.5	% 40.6-15	3						

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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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FDRM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey keen to come com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

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Project Manager: Tracy Hillard	: Tracy Hillard									o,	P.O. #:	77											_							_			_
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Project Name: B	Project Name: Big Eddy Unit 248H / 249H	49H								S	State: NM	Z	=	2	Zip: 88220								_							_		_	
Project Location	Project Location: 32.62085, -103.83132	2								T .	Phone #:	9	5500										_							_		_	_
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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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.8	% 40.6-15	3						

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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 105 4 (H251705-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64.6	% 40.6-15	3						

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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: Tamara Oldaker 03C1558453 & 03C1558577 Sample Received By:

Project Location: XTO 32.62085-103.83132

Sample ID: FS 106 4 (H251705-03)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	68.4	% 40.6-15	3						

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Celey D. Keine



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: Tamara Oldaker 03C1558453 & 03C1558577 Sample Received By:

Project Location: XTO 32.62085-103.83132

Sample ID: FS 107 4 (H251705-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	66.9	% 40.6-15	3						

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Celey D. Keene



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: Tamara Oldaker 03C1558453 & 03C1558577 Sample Received By:

Project Location: XTO 32.62085-103.83132

Sample ID: FS 108 4 (H251705-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.6	% 40.6-15	3						

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Celey D. Keine



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. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



8	FAX (575) 393-2476	176	BILL TO		ANALYSIS REQUEST
ompany Name: Ensoium, LLC			P.O. #:		
ddrose: 3422 National Parks Hwy			Company: XTO Energy Inc	nc	
OGRESS. SIZE MINOCIAL	State: NM	Zip: 88220	Attn: Colton Brown		
Phone #: 575-937-3906	Fax#:		Address: 3104 E Green St	St	
Project #: 03C1558453 / 03C1558577	Project Owner: XTO	r: XTO	City: Carlsbad		
project Name: Big Eddy Unit 248H / 249H	249H		State: NM Zip: 88220		
TOJECT Maine, org cond			Phone #:		
Project Location: 32.62085, -103.83132	32		100000		
Sampler Name: Alex Ferrell			Fax #:	200	
Sampler Name: Alex Ferren		MATRIX	PRESERV. SAMPLING	LING	
EDB TYB THE CHEA.		R		s	
Lab I.D. Sample I.D.	Depth (feet)	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER: DATE	Chlorides	
53	W		1 ye/25	1 1 XX	
	2	0		500	
3 ES 106	L	0 1	<	020	
53	Z	C 1 V	<	152	
S 65 108	2.	5	<	133/ / / /	
				AF	
2.5	lastly and clients exclusive remedy and any other cause whatevers shall send or consequental damages, incli-	and the any claim arising whether broads in contract or limit, shall be limited in the shall be deemed whether broads in willing and breaked by Camilland will'no problem (sealed by Camilland will'no problem) will be character, broadware interruptions, limit of can, or limit of prillin.	ther based is context or lost, that he fembed is the smooth person made in writing and hereled by Carolinal within 30 days who carbon a reprophenous laws of can, or have of profile ecurated by	unnunt gad by the client for the 20 days wher completion of the applicable becamed by client, its subsidiorem.	
sarkos, in na exercisos Cardinal for listed for Procession of affiliates of spociations arising not of or related to the perfurn Relinquished By:	Date:	Received By:	o claim is head upon my if the Boom name.	Verbal Result:	□ No Add'l Phone #: Please provide Email address: n, TMorrissey@ensolum.com, KT
Relinquished By:	Contract of the contract of th	Received By:	The Market War	REMARKS: Incident: NAPP241804356T, NAPP2432147637, NAPP2432531235, NAPP2502042071 Cost Center: 1140201001	NPP2432147637, NAPP2432
Defivered By: (Circle One) Sampler - UPS - Bus - Other:	Comment Temp	Sample Cool	Sample Condition CHECKED By Cool latact (Initials) Cool stact (Initials)	Turnaround Time: Standard Rush Thermometer ID: ## 25 - 8.47	Bacteria (only) Sample Condition Cool Infact Observed Temp. Yes Yes Orrected Temp.
FORM-006 R 3.2 10/07/21	+ Cardin	al cannot accept verb	+ Cardinal cannot accept verbal changes. Please email changes to celey keene@	anges to celey.keene@cardfi	cardinallabsnm.com

Page 8 of 8



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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.1	% 40.6-15	3						

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Celey D. Keene



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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: FS 110 5' (H251919-02)

BTEX 8021B

	9,	9	7	7: 5::					
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 BTEX	<0.300	0.300	04/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.5	% 40.6-15	3						

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Celey D. Keine



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 111 5' (H251919-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.3	% 40.6-15	3						

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Celey D. Keene



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 114 5' (H251919-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	83.1	% 40.6-15	3						

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Celey D. Keene



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 115 5' (H251919-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.1	% 40.6-15	3						

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Celey D. Keine



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 116 5' (H251919-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	75.0	% 40.6-15	3						

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Celey D. Keene



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 117 5' (H251919-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	75						
Surrogate: 1-Chlorooctadecane	79.8	% 40.6-15	3						

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Celey D. Keene



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 118 5' (H251919-08)

RTFY 8021R

llue QC RPD Qualifier 00 17.5 00 12.1 00 8.74 00 7.85
00 12.1 00 8.74
00 8.74
7.85
llue QC RPD Qualifier
00 3.77
llue QC RPD Qualifier
00 2.57
0.742

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: FS 119 5' (H251919-09)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	.u Dy. 311					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.7	% 40.6-15	3						

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Celey D. Keene



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 120 5' (H251919-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.8	% 40.6-15	3						

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Celey D. Keine



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 121 5' (H251919-11)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.1	% 40.6-15	3						

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Celey D. Keene



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 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 9	% 71.5-13	4						
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	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.4	% 40.6-15	3						

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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 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	% 71.5-13	4						
Chloride, SM4500CI-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	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	82.7	% 40.6-15	3						

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Celey D. Keine



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 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 9	% 71.5-13	4						
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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.0	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 126 5' (H251919-15)

RTFY 8021R

B1EX 8021B	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	% 71.5-13	4						
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	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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Celey D. Keine



03/31/2025

Analytical Results For:

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

Received: 04/01/2025 Sampling Date:

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 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	% 71.5-13	4						
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	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.2	% 40.6-15	3						

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Celeg D. Keene



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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: FS 128 5' (H251919-17)

BTEX 8021B

DILX GOZID	11197 119		Allulyzed by: 311						
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	% 71.5-13	4						
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	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.8	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 129 5' (H251919-18)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.8	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 130 5' (H251919-19)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.8	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 131 5' (H251919-20)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	87.3	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 132 5' (H251919-21)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.0	% 40.6-15	3						

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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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: FS 133 5' (H251919-22)

BTEX 8021B

DILX GOZID	mg/	- Kg	Andryzo	.u Dy. 311					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.6	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 138 5' (H251919-23)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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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 139 5' (H251919-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	92.8	% 40.6-15	3						

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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 140 5' (H251919-25)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.9	% 40.6-15	3						

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Celey D. Keene



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 141 5' (H251919-26)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.0	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 142 4' (H251919-27)

RTFY 8021R

ilig/	ky	Allalyze	a By: JH					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/02/2025	ND	1.85	92.3	2.00	0.373	
<0.050	0.050	04/02/2025	ND	1.96	97.8	2.00	0.0378	
<0.050	0.050	04/02/2025	ND	2.00	99.9	2.00	0.591	
<0.150	0.150	04/02/2025	ND	6.21	103	6.00	0.831	
<0.300	0.300	04/02/2025	ND					
118 9	% 71.5-13	4						
mg,	'kg	Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
304	16.0	04/02/2025	ND	416	104	400	3.77	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	04/02/2025	ND	210	105	200	1.99	
<10.0	10.0	04/02/2025	ND	202	101	200	2.23	
<10.0	10.0	04/02/2025	ND					
95.4	% 44.4-14	5						
86.8	% 40.6-15	3						
	Result <0.050 <0.050 <0.050 <0.150 <0.300 118 9 mg/ Result 304 mg/ Result <10.0 <10.0 <10.0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 118 % 71.5-13 mg/kg Result Reporting Limit 304 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 44.4-14	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery < 0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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Celeg D. Keene



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 143 4' (H251919-28)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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 BTEX	<0.300	0.300	04/03/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

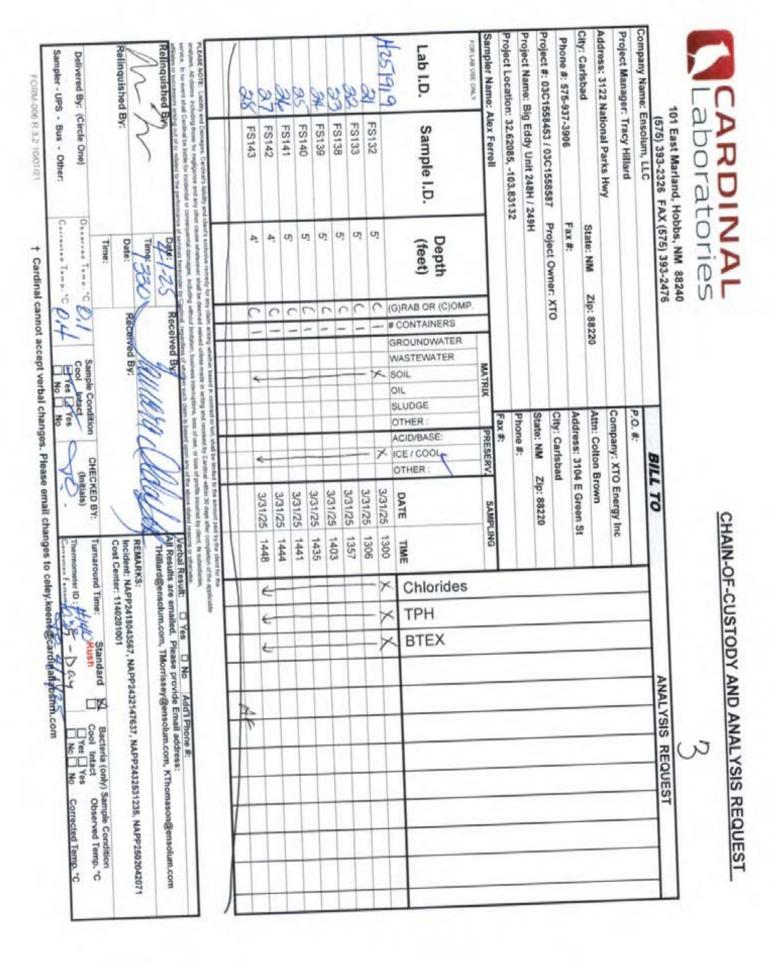
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Celey D. Keine

Relinquished By: Delivered By: (Circle One)	Relinquished B	PLEASE NOTE: L'acety an amplyees. All disens include service, in nu exertistrali C.	10	00	9	16	S	+	O)	12	,	4151AH	Lab I.D.	Sampler Name: Alex Ferrell	Project Location:	Project Name: Bi	Project #: 03C155	Phone #: 575-937-3906	City: Carlsbad	Address: 3122 National Parks Hwy	Project Manager: Tracy Hillard	Company Name: Ensolum, LLC	16
Sy: Circle One)	3	ad Danages. Cardinars servey and and those for nephperics and any of artificial be liable for incidential or or	FS120	FS119	FS118	FS110	FS115	FS114	FS111	FS110	FS109		Sample I.D.	lex Ferrell	Project Location: 32.62085, -103.83132	Project Name: Big Eddy Unit 248H / 249H	Project #: 03C1558453 / 03C1558587	7-3906		tional Parks Hwy	Tracy Hillard	nsolum, LLC	101 East Marland, Hobbs, NM 88240
Date:	DE Godu	no cause verationeer shall essequential damages, india nos of sandoes herescook: I	5's	O1	σ ₂ σ	uŋ (un c	n co	OŽ	O)	cj		Depth (feet)		2	H69	Project Owner: XTO	Fax#:	State: NM				obbs, NM 882 X (575) 393-24
Sample Condition Cool Intact Cool Intact Cool Intact	Received By	empel waked unless made emput limitation, business in cloud, requiritiess of whether	The state of the s									- # C		MATRIX			: XTO		Zip: 88220				40 76
e: Cool Intack Co	era Walaster	in writing and received of wearing and it is writtened to surrigations, loan of use, or form of the mitner stated it such claim is based upon any of the mitner stated	deal and	3/31/25	3/31/25	3/31/25	3/31/25	3/31/25	3/31/25	3/31/25	1	Κ,	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER:	PRESERV. SAMPLING	Fax#:	1	City: California 7in: 88220	Addition of the	Address: 1104 E Green St	Company: ATO Circigo	P.O. #:	BILL TO	
Incident: NAPP24 Cost Center: 1140 Turnaround Time: Thermometer ID:	All Results are email THillard@ensolun REMARKS:	reason or otherwise. Verbal Result:	2 21	5 1137				5 1107				1110 X	Chlorides	LING					St		R		
# WRush	mailed. Please pro plum.com, TMorriss	□ Yes □ No	Or .	4								XX	TPH BTEX									-	Δ
Cost Center: 1140201001 Cost Center: 1140201001 Cost Center: 1140201001 Cost Center: 1140201001 Standard S Bacteria (only) Sample Condition Turnaround Time: Standard S Cool Intact Observed Temp. "C Cool Intact Observed Temp. "C Cool Intact Observed Temp. "C Cool Intact Observed Temp. "C	I Results are emailed. Please provide Email acciness. THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com THILLARD THE THIRD THE TAXABLE PROVIDED THE THIRD THE TAXABLE PROVIDED THE	Add Phone #:																					ANALYSIS REQUEST

Delivered By: (Circle One)	Relinquished By:	Relinquished By	en yek	PLEASE NOTE LINES	19	2	17	110	7	14	101	2	11	H257919	Lab I.D.	Sampler Name: Alex Ferrell	Project Location:	Project Name: Bi	Project #: 03C155	Phone #: 575-937-3906	City: Carlsbad	Address: 3122 National Parks Hwy	Project Manager: Tracy Hillard	Company Name: Ensolum, LLC		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	*	. X	daig those for negligence and any or Cardinal be liable for explored or or	FS131	FS130	FS129	FS128	FS127	FS126	FS125	FS124	FS122	FS121		Sample I.D.	llex Ferrell	Project Location: 32.62085, -103.83132	Project Name: Big Eddy Unit 248H / 249H	Project #: 03C1558453 / 03C1558587	7-3906		tional Parks Hwy	Tracy Hillaru	nsolum, LLC	(575) 393-2326 FAX (575) 393-2476	aboratories
Carresced Temp.	Date:	Date: 7.25	proequental damages, indial ance of services hereunder t	d clearly each size remedy for	oj	ຜູ	Ωį	υj	O <u>r</u>	69	U)	OJ.	O)		Depth (feet)		2	49H	Project Owner: X10	Fax #:	State. rem	Carrie NI			X (575) 393-247) ratories arland, Hobbs, NM 88240
Sample Condition Cool intact Cool intact Cool intact No I No I No	Received By:	Received By:	g without tendation, busine Cardinal, repardiess of wh	any diam within and entire there is contract to desire with one of the deemed without made in which the deemed with the deemed without made in which the deemed without made in which the deemed with the deemed									C - X	G V	S)RAB OR (C)OMP. CONTAINERS SROUNDWATER VASTEWATER SOIL DIL	MATRIX			: XIO	i	and the second	7in: 88220			76	5 01
The COL Sample Condition CHECKED DI. (Initials) Thermometer ID: (Initials) Thermometer ID: (Initials) Thermometer ID: (Initials)	*	The Market	piscon, tons of use, or tons of provin excess to clause in based upon any of the above that	etyrt, shall be lettined to be seconded by Cardinal with	V 3/31/25	3/31/25	3/31/25	27,15%	304506	200	3/31/25	3/31/25	1	/	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	ESERV.	Fax#:		Ctato: NM Zip: 88220	City: Carlsbad	Address: 3104 E Green St	Attn: Colton Brown	Company: XTO Energy Inc	P.O. #:	BILL TO	
Thermometer ID	REMARKS: Incident NAPP24 Cost Center: 1140	All Results are email THillard@ensolum	Verbal Result	past by the client for the after completion of the appli- by plant, its subsidients.	100	A								5 1142	Chlorides	SAMPLING			8		1 St		Inc			
#140 Rush	P2418043567, NAPP 140201001	emailed. Please pro solum.com, TMorrise	□ Yes □ No	all the same of th	*									× ×	BTEX				_						A	
Yet Yes	321476	Il Results are emailed. Please provide cinas sociosos. THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com	Yes O No Add Phone #:																						ANALYSIS REQUEST	2





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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: FS 72 A 4' (H251978-01)

BTEX 8021B

	91	9							
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	67.0	% 40.6-15	3						

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Celey D. Keene



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: FS 91 A 4' (H251978-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.8	% 40.6-15	3						

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Celey D. Keene



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 Tamara Oldaker Sample Received By:

Sample ID: FS 90 A 4' (H251978-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	125 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.1	% 40.6-15	3						

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Celey D. Keine



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: SW 08 0-4' (H251978-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	100	% 40.6-15	3						

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Celey D. Keene



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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Celeg D. Kreene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Company Name: Ensolum, LLC Project Manager: Tracy Hillard	Ensolum, LLC : Tracy Hillard					P.O. #		BILL TO			Ш	-11	ANALYSIS		REQUEST
Address: 3122 Na	Address: 3122 National Parks Hwy					Com	pany: >	Company: XTO Energy Inc	Inc					_	_
City: Carlsbad		State: NM	Zip:	Zip: 88220		Attn	Attn: Colton Brown	Brown						_	_
Phone #: 575-937-3906	7-3906	Fax #:				Add	ress: 31	Address: 3104 E Green	n St			_			
Project #: 03C15t	Project #: 03C1558453 / 03C1558577	Project Owner: XTO	XTC	0		City	City: Carlsbad	ad				_			
Project Name: Bi	Project Name: Big Eddy Unit 248H / 249H	49Н				Stat	State: NM	Zip: 88220	0			_			
Project Location:	Project Location: 32.62085, -103.83132	2				Pho	Phone #:								
Sampler Name: A	Alex Ferrell					Fax #	79								
FOR LAB USE DIALY					MATRIX		PRESERV	٦	SAMPLING			_			
5	Sample I D	Depth	_	WATER	ATER	_		1		ides					
H25/978	Sample I.U.	(feet)	(G)RAB OR	# CONTAIN GROUNDY	WASTEWA SOIL OIL SLUDGE	OTHER:	ACID/BASE ICE / COOL OTHER:	DATE	TIME	Chlori	TPH	BTEX			
-	FS72A	4:		-		_	K	4/2/25	1117	×	X	×		_	
2	FS91A	4:	-		×		*	4/2/25	1121	×	X	×			
-	FS90A	4:			jK,		K	4/2/25	1125	×	×	X			
4	SW08	0-4"	6	-	×		7	4/2/25	1402	x	+	×			
1						1	#					B			
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TE Listely and change and department	Damages, Cardinal's liability and cli- tical for confirming and are other dept by birtie for incidental or come	and desiral secondary property	out of	mineral selection designation of the contract	er based is costinati marks in untiles non brane trianmerieses.	and the second	and or fort, whealt has limited in the need parameters for it mentioned subseque." In Property of years was hope of president to	121	of god by the client for the ex wher removables of the e of the related the extraordiscion	1 10 10					
Relinquished By:	3	S2-5-440	Re	Received By	110ta	1	9	&	Verbal Result: All Results are emailed. THillard@ensolum.co	are en gensol	☐ Yes hailed. I	Please pro m, TMorriss	erbal Result: Yes No AddTPhone #: Results are emailed. Please provide Email address: Thillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com	address:	7
Relinquished By:		Date:	Rec	Received By:	y.	3	2	1	REMARKS: Incident: NAPP241804356 Cost Center: 1140201001	(APP2 er: 114	418043	3567, NAPP	2432147637	REMARKS: Incident: NAPP2418043567, NAPP2432147637, NAPP2432531235, NAPP2502042071 Cost Center: 1140201001	200
Delivered By: (Circle One) Sampler - UPS - Bus - Ot	ben	Curates Tent. 'C	ea		Sample Condition Cool Intact Cool Intact Yes	v /8	SEC CHEC	CHECKED BY: (Initials)	Turnaround Time	d Time	SIE	Standard Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes No No Corrected Temp.	



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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.7	% 40.6-15	3						

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Celey D. Keene



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 83 4' (H251979-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	88.9	% 40.6-15	3						

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Celey D. Keene



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 84 4' (H251979-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	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	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	95.2	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/03/2025

03C1558453 & 03C1558577

Reported: 04/09/2025 Project Name: BIG EDDY UNIT 248H & 249H Project Number:

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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.7	% 40.6-15	3						

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Celey D. Keine



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 71 4' (H251979-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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Celeg D. Keene



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 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	% 71.5-13	4						
Chloride, SM4500CI-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	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	84.1	% 40.6-15	3						

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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 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/04/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	87.9	% 40.6-15	3						

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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 Sample Received By: Project Number: 03C1558453 & 03C1558577 Tamara Oldaker

Project Location: XTO 32.62085-103.83132

Sample ID: FS 72 4' (H251979-08)

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	04/06/2025	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 BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 71.5-13	4						
Chloride, SM4500Cl-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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.3	% 40.6-15	3						

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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 73 4' (H251979-09)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2025	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 BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.6	% 40.6-15	3						

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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

Analyzed By: JH

Project Location: XTO 32.62085-103.83132

mg/kg

Sample ID: CS 60 0.5' (H251979-10)

BTEX 8021B

	<u> </u>								
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 BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.0	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: CS 59 0.5' (H251979-11)

RTFY 8021R

BIEX 8021B	тд/кд		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 BTEX	<0.300	0.300	04/06/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.6	% 40.6-15	3						

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Notes and Definitions

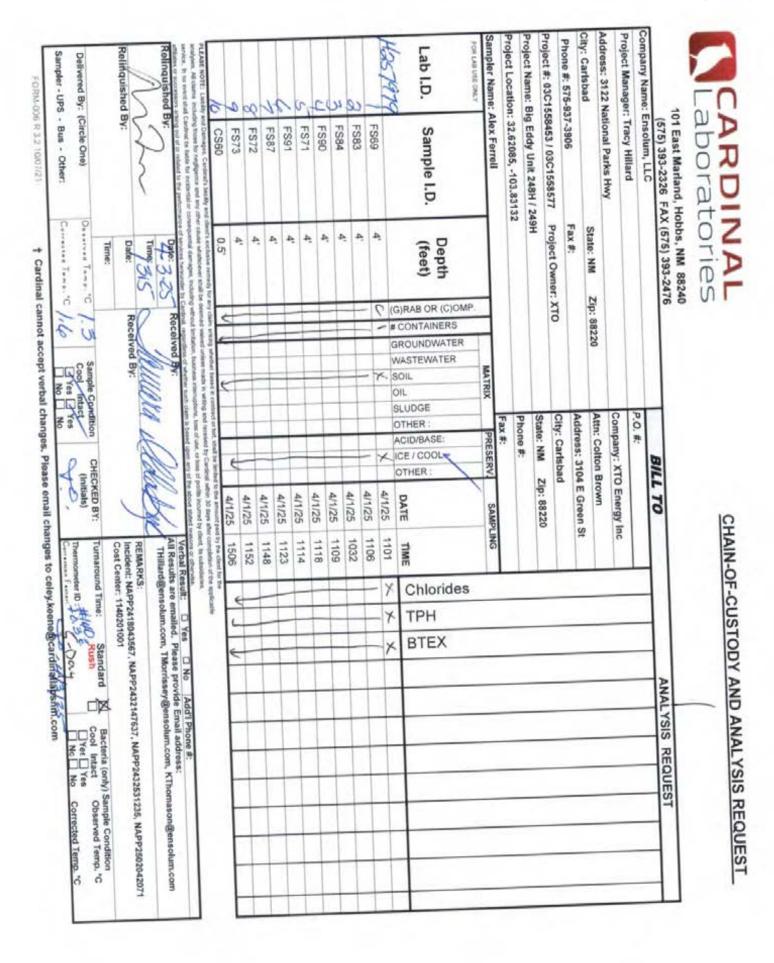
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above 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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Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Ott	Relinquished By:	MLEASE NOTE: Labely and De			HPMIN	in mo	Lab I.D.	Sampler Name: Alex Ferrell	Project Location:	Project Name: Bi	Project #: 03C155	Phone #: 575-937-3906	City: Carlsbad	Address: 3122 National Parks Hwy	Project Manager: Tracy Hillard	Company Name: Ensolum, LLC		
tellinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Cautinal to Bable for incidental or sing out of or selded to the perform by:	and Demages, Cardinal's leadily and choosing through the state of the			CS59		Sample I.D.	Jex Ferrell	Project Location: 32.62085, -103.83132	Project Name: Big Eddy Unit 248H / 249H	Project #: 03C1558453 / 03C1558577	7-3906		tional Parks Hwy	Tracy Hillard	nsolum, LLC	(575) 393-2326 FAX (575) 393-2476	aboratories
Date: Time: Corrected Temp.	Date: 32.	of claus's authorise remaily for any other cause whetherers shall be de-			0.5		Depth (feet)		2	49H	Project Owner: X10	Fax #:	NN				X (575) 393-247)Oratories st Marland, Hobbs, NM 88240
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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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 04/07/2025 Sampling Date: 04/04/2025

Reported: 04/08/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558577 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: FS 32 2' (H252033-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.5	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

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

Received: 04/07/2025 Reported:

04/08/2025 BIG EDDY UNIT 248H & 249H

Project Name: 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	Analyze	d 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 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.8	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received: 04/07/2025 Reported: 04/08/2025

BIG EDDY UNIT 248H & 249H

mg/kg

Project Name: BIG EDDY UI
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

	9/	9	7	7: 5::					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.8	% 40.6-15	3						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

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

Received: 04/07/2025 Reported: 04/08/2025

BIG EDDY UNIT 248H & 249H

mg/kg

Project Name: BIG EDDY UI
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

	9/	9	7	7: 5::					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.8	% 40.6-15	3						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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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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Celeg D. Keene

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

oratories

101 East Marland, Hobbs, NM 88240

(6/6)	19	FAA (0/0) 333-24/0	4/0	200		ANA	Vele proli	104
Company Name: Ensolum, LLC	ım, LLC			BILL 10		MANA	WINT I OIL NEWOLO.	100
Project Manager: They	3 Hillerd	À		P.O. #:				
Address: 601 N Marienfeld Street, Suite 400	eld Street, Su	ite 400		Company: XTO Energy, Inc.	y, Inc	_	_	
City: Midland		State: TX	Zip: 79701	Attn: Colton Brown			_	
Phone #: \$ 575-137-3506 Fax #:	137-3506	9 Fax #:	The second second	Address: 3104 E Greene St	ne St			
Project #:036 155 8577	577	Project Owner:	r: XTO Energy	City: Carlsbad		_	_	
	Rich Unit	~	7.	State: NM Zip: 88220	20			
	0		63132	Phone #:				
3	ころろ			1				
ACM THE GATA			S ER	PRESERV. SAM	SAMPLING	00		
Lab I.D. San	Sample I.D.	Depth (feet)	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH 8015 BTEX 8021	Chloride 450		
7	32	2	<		1451	5		
4	2.4	f	2	V 44.34	1410	(
3	74	S	- 2	V 4.4.3	1419	<		
4	49	7	0	·	1429 1	,		
PLEASE WOTE: Case by and Domages. Cardow I's leadily and do	Cardeal's liability and o	seringus sum	we shall be desired which delete transfer to water and received by Cardinal with 50 days they	set or tark, shall be leaded in the account parameter by Cardinal within 50 days of	paid by the claim for the abordone completion of the applicable			
Relinquished By:	elated to the performan	Pate:1-25	Racelvad By:	rent -	Verbal Result: All Results are emaile BBelili@ensolum.com	res ☐ No d. Please prov TMorrissey@es n. KThomason®	Add'l Phone #: ide Email address: nsolum.com, tensolum.com	
Relinquished By:		Date:	Received By:		REMARKS: Incident Number Cost Center. [W GFCM: 4860500	Incident Number: Cost Center: [1402Ctoc] GFCM: 48605000		nAPP2418043567 nAPP2432147637 nAPP2432531235 nAPP2502042071
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Carragina Tamp. "C	Sample Condition Cool Intact Cool Intact No I No I No	tion CHECKED BY:	Thermometer ID TITS	Standard W	Bacteria (only) S Cool Intact Yes Yes	Sample Condition Observed Temp. °C Corrected Temp. °C



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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UNIT 248
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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	110 9	% 40.6-15	3						

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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 30 4 (H252181-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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Cool & Intact Alyssa Parras

Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

 04/11/2025
 Sampling Date:
 04/10/2025

 04/16/2025
 Sampling Type:
 Soil

Sampling Condition:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: FS 48 4 (H252181-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN 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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	75						
Surrogate: 1-Chlorooctadecane	111	% 40.6-15	3						

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Celeg D. Keine



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)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: 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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/14/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105 9	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: 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	Analyze	d 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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	98.5	% 40.6-15	3						

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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

Sampling Date:

04/10/2025

Project Name:

BIG EDDY UNIT 248H & 249H

Sampling Type: Sampling Condition: Soil

Project Number:

Sample Received By:

Cool & Intact Alyssa Parras

03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: FS 55 7 (H252181-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.7	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: 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)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	106 5	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.2	% 40.6-15	3						

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04/10/2025

Alyssa Parras

Sampling Date:

Sample Received By:

Analytical Results For:

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

Received: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Project Name: BIG EDDY UNIT 248H & 249H Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: FS 63 3 (H252181-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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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

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)

Project Number:

BTEX 8021B	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.5	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/10/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

ma/ka

Sample ID: FS 75 4 (H252181-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.3	% 40.6-15	3						

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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

04/16/2025 Samp BIG EDDY UNIT 248H & 249H Samp

Project Name: BIG EDDY UNIT 248h 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)

BTEX 8021B	mg,	/kg	Analyze	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	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	93.2	% 40.6-15.	3						

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Celeg D. Keene



Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025

BIG EDDY UNIT 248H & 249H

Project Number:

Project Name:

RTFY 8021R

03C1558453

ma/ka

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)

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.4	% 40.6-15	3						

Applyzod By: 14

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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

mg/kg

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

	<u> </u>								
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	87.2	% 40.6-15	3						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025 Sampling Date: 04/10/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Number: 03C1558453 Project Location: XTO-EDDY CO., NM

Sample ID: FS 81 3 (H252181-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.7	% 40.6-15	3						

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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

34/10/2023 RIG EDDY LINIT 248H & 240H

ma/ka

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 8

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 82 3 (H252181-18)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	98.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.8	% 40.6-15	3						

Applyzod By: 14

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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

BIG EDDY UNIT 248H & 249H

ma/ka

Project Name: BIG EDDY UN 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)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.6	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/10/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

ma/ka

Sample ID: FS 88 3 (H252181-20)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
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	85.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.6	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN 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/	rky	Allalyze	d 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 9	% 71.5-13	4						
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	89.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.8	% 40.6-15	3						

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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

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)

Project Number:

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	99.2	% 71.5-13	4						
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	86.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.9	% 40.6-15	3						

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Celey D. Keine



Sample Received By:

04/10/2025

Alyssa Parras

Analytical Results For:

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

Received: 04/11/2025 Sampling Date:

Reported: 04/16/2025 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Project Name: BIG EDDY UNIT 2
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: FS 93 3 (H252181-23)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.3	% 40.6-15	3						

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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

 04/11/2025
 Sampling Date:
 04/10/2025

 04/16/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H & 249H

03C1558453

ma/ka

Project Location: XTO-EDDY CO., NM

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 94 3 (H252181-24)

Project Number:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	87.9	% 40.6-15	3						

Applyzod By: 14

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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

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UNI
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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.2	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/10/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

Sample ID: FS 97 4 (H252181-26)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	98.6	% 71.5-13	4						
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	86.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.3	% 40.6-15	3						

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04/10/2025

Soil

Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025 Sampling Date: Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H

03C1558453

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

Sample ID: FS 98 4 (H252181-27)

Project Number:

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.7	% 40.6-15	3						

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04/10/2025

Cool & Intact

Alyssa Parras

Soil

Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 Sampling Type:
BIG EDDY UNIT 248H & 249H Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: FS 99 4 (H252181-28)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.9	% 40.6-15	3						

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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

ma/ka

BIG EDDY UNIT 248H & 249H

Project Number: 03C1558453

Project Name:

RTFY 8021R

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)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.6	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

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

Received: 04/11/2025

Sampling Date: 04/10/2025

Reported: 04/16/2025
Project Name: BIG EDDY UNIT 248H & 249H

Sampling Type: Soil
Sampling Condition: Cool & Intact

Project Number: 03C1558453

Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

Sample ID: FS 101 4 (H252181-30)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.6	% 40.6-15	3						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.9	% 40.6-15	3						

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04/11/2025

Cool & Intact

Alyssa Parras

Soil

Analytical Results For:

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

Received: 04/11/2025 Reported:

Sampling Date: 04/16/2025 Sampling Type:

Sampling Condition:

Sample Received By:

Project Name: **BIG EDDY UNIT 248H & 249H** Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: CS 57 A 2 (H252181-32)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.1	% 40.6-15	3						

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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

04/16/2025 Sampling Type: BIG EDDY UNIT 248H & 249H Sampling Condition:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025 Sampling Type: Soil

Sample Received By:

Cool & Intact Alyssa Parras

Sample ID: SW 04 0-2 (H252181-33)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.1	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: 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	Analyze	ed 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	% 71.5-13	4						
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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.6	% 40.6-15	3						

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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)

BTEX 8021B	mg,	'kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.2	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN 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)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.9	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

Sample ID: SW 09 0-3 (H252181-37)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.0	% 40.6-15	3						

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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 10 0-3 (H252181-38)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.5	% 40.6-15	3						

Applyzod By: 14

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

Sample ID: SW 11 0-3 (H252181-39)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.6	% 40.6-15	3						

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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

Sampling Date:
Sampling Type:

Project Name: BIG EDDY UNIT 248H & 249H

79.4 %

40.6-153

Project Number: 03C1558453
Project Location: XTO-EDDY CO., NM

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

04/11/2025

Soil

Sample ID: SW 12 0-3 (H252181-40)

BTEX 8021B

	****31	9							
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	130 %	% 71.5-13	4						
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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14							

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene

Surrogate: 1-Chlorooctadecane



Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

Sample ID: FS 45 5 (H252181-41)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.2	% 40.6-15	3						

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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	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	79.3	% 40.6-15	3						

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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

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)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	77.5	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: 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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.1	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: 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	Analyze	d 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 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.5	% 40.6-15	3						

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Cool & Intact

Alyssa Parras

Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Sampling Date: 04/11/2025
Sampling Type: Soil

Sampling Condition:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

mg/kg

Project Location: XTO-EDDY CO., NM

Sample ID: FS 104 4 (H252181-46)

BTEX 8021B

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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 04/14/2025	-	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	04/14/2025	Method Blank		,	·		Qualifier
Chloride	32.0	16.0	04/14/2025	Method Blank		,	·		Qualifier Qualifier
Chloride TPH 8015M	32.0 mg/	16.0 ' kg	04/14/2025 Analyze	Method Blank ND d By: MS	416	104	400	0.00	
Chloride TPH 8015M Analyte	32.0 mg/	16.0 (kg Reporting Limit	04/14/2025 Analyze Analyzed	Method Blank ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	

Analyzed By: JH

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

87.2 %

44.4-145

Surrogate: 1-Chlorooctane

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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 21 0-4 (H252181-47)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.3	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

Sample ID: SW 22 0-5 (H252181-48)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.7	% 40.6-15	3						

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Cool & Intact

Alyssa Parras

Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

Sampling Date: 04/11/2025
Sampling Type: Soil

Sampling Condition:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: SW 23 0-7 (H252181-49)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.5	% 40.6-15	3						

Surrogate: 1-Chlorooctadecane 82.5 % 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 24 0-7 (H252181-50)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.9	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Sample ID: SW 25 0-7 (H252181-51)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	85.7	% 40.6-15	3						

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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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.6	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

Sample ID: SW 13 0-4 (H252181-53)

RTFY 8021R

BIEX 8021B	mg/kg		Anaiyze	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	91.8	% 40.6-15	3						
-									

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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)

RTFY 8021R

B1EX 8021B	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.7	% 40.6-15	3						

Applyzod By: 14

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04/11/2025

Alyssa Parras

Analytical Results For:

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

Received: 04/11/2025 Reported:

04/16/2025 Sampling Type:

Sampling Date:

Sample Received By:

Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM

Soil Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Sample ID: SW 15 0-5 (H252181-55)

BTEX 8021B	mg/kg		Analyze	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.1	% 40.6-15	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN 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)

RTFY 8021R

BIEX 8021B	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.2	% 40.6-15	3						

Applyzod By: 14

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04/11/2025

Alyssa Parras

Analytical Results For:

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

Received: 04/11/2025 Reported: 04/16/2025

04/16/2025 Sampling Type: Soil
BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Name: BIG EDDY UNIT 248H & 249H
Project Number: 03C1558453

mg/kg

Project Location: XTO-EDDY CO., NM

Sample ID: SW 17 0-5 (H252181-57)

BTEX 8021B

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 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	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					

Analyzed By: JH

Surrogate: 1-Chlorooctadecane 90.5 % 40.6-153

95.4 %

44.4-145

Surrogate: 1-Chlorooctane

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Celey D. Keine



Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

Sample ID: SW 18 0-5 (H252181-58)

BTEX 8021B	mg/kg		Analyze	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.8	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/11/2025 Sampling Date: 04/11/2025

Reported: 04/16/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

Sample ID: SW 19 0-5 (H252181-59)

RTFY 8021R

B1EX 8021B	тд/кд		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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.1	% 40.6-15	3						

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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

04/16/2025 Sampling Type:

Applyzod By: 14

Project Name: BIG EDDY UNIT 248H & 249H

03C1558453

Project Location: XTO-EDDY CO., NM

Sampling Date: 04/11/2025 Sampling Type: Soil

Sampling Condition:

Sample Received By:

Cool & Intact Alyssa Parras

Sample ID: SW 20 0-5 (H252181-60)

Project Number:

RTFY 8021R

B1EX 8021B	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	92.7	% 40.6-15.	3						

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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

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN 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)

RTFY 8021R

BIEX 8021B	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.1	% 40.6-15	3						

Applyzod By: 14

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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

BIG EDDY UNIT 248H & 249H

Project Name: 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.8	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/11/2025

Sampling Date: 04/11/2025

Reported: 04/16/2025
Project Name: BIG EDDY UNIT 248H & 249H

Sampling Type: Soil

Project Number: 03C1558453

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: XTO-EDDY CO., NM

Sample ID: SW 29 0-2 (H252181-63)

RTFY 8021R

BIEX 8021B	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.4	% 40.6-15	3						

Applyzod By: 14

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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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Company Name: Ensolum, LLC Project Manager: Ty ACY Address: 601 N. Marienfeld St. City: Midland Stat Phone 8: 575-737- Project 8: 03(1558453) Project Name: Big EAdu Project Location: EAdu	Tracy Mariented St. 58453 58453 64453	Hillard STE 400 10:TX ZD: 79701 STOLE Email: TH: Hard@arsh Project Owner: 475 L World 248 H & 249 H	P.O. 8: Company-Out-USA-Lo Attn: City: State: Zip:
Project Location: Sampler Name:	Eddy C	248# 4 249	Phone #:
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- Other:			7		erdinal in little for incidental or commenced themse	21.5		SAN	SWOR	LOMS	SWOW	SWOS	LOMS	(S57A	£5102	Sample I.D.		rabilha G	Eddy cow	o Eddy Unit	1228423	937-3706	State: TX	50	YOCY Hillerd	Ensolum, LLC	101 East M (575) 393
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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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, 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 31 4 (H252357-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/22/2025	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.0	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 04/21/2025 Reported: 04/24/2025

04/24/2025 BIG EDDY UNIT 248H & 249H

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)

Project Name:

Project Number:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/22/2025	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.5	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/22/2025	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.7	% 40.6-15	3						

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



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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Celeg D. Kreene

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+ Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsym.com	checked By:	To Chatha		agy whether leased in pointing or their, shall be limited to the attenued past by the street or the ward unless excels in watting and innoceled by Careford which 20 days what competition of the applicable tapon, business interruptions, loss of one, or trust of grottle inquiried by clost, its sudexidations, policies of whether exchi claim is planted upon only of the above stated treatment of physioless.			<	74774 C	ACI ICE OT	JDGE HER: ID/BASE: I/ COOL HER:	PRESERV	Fax#:	Phone #: (575) 1	State: NM Zip:	City: Carlsbad	Address: 3104 E Greene	Attn: Colton Brown	Company: XTO Energy, Inc.	P.O. #:	BILL TO
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Page 6 of 6



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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	112 9	% 40.6-15	3						

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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 Sample Received By: Project Number: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

Sample ID: FS 02 2.5' (H251370-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	110 9	% 40.6-15	3						

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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 Sample Received By: Project Number: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

Sample ID: FS 03 2.5' (H251370-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	118 9	% 40.6-15	3						

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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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

Sample ID: FS 04 2.5' (H251370-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	112	% 40.6-15	3						

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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 05 2' (H251370-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 9	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	114 9	% 40.6-15	3						

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Sampling Date:

Analytical Results For:

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

Received: 03/07/2025 Reported:

03/10/2025 Sampling Type: Sampling Condition:

Project Name: BIG EDDY UNIT 248H & 249H Project Number: 03C1558453 & 03C1558587 Project Location: XTO 32.62085-103.83132

Sample Received By:

03/06/2025

Soil

Cool & Intact Alyssa Parras

Sample ID: FS 08 2' (H251370-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 %	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	124 9	% 40.6-15	3						

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03/06/2025

Analytical Results For:

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

Received: 03/07/2025 Sampling Date: 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 09 2' (H251370-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	123 9	% 40.6-15	3						

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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 10 2' (H251370-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	119 9	% 40.6-15	3						

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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 Sample Received By: Project Number: 03C1558453 & 03C1558587 Alyssa Parras

Project Location: XTO 32.62085-103.83132

Sample ID: FS 11 2' (H251370-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	125 9	% 40.6-15	3						

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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

03/10/2025 Sampling Type: Soil

Sampling Date:

 Project Name:
 BIG EDDY UNIT 248H & 249H

 Project Number:
 03C1558453 & 03C1558587

 Project Location:
 XTO 32.62085-103.83132

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

03/06/2025

Sample ID: FS 12 2' (H251370-10)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	117 9	% 40.6-15	3						

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Celeg D. Kreene



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

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 13 2' (H251370-11)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	118	% 40.6-15	3						

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Celey D. Keine



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 14 2' (H251370-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	116 %	6 40.6-15	3						

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Celey D. Keene



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 15 2' (H251370-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/10/2025	ND	400	100	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	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 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	117 9	% 40.6-15	3						

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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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FORM 006 R 1/2 10(03/21

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(575) 393-2326 FA	FAX (575) 393-2476	ľ				١	١	١	١			ANALYSIS DECLIEST	2	TOT		_
Company Name:	Ensolum II C				BILL	LL 70			1	1	1	1	1000	12	15		_
Project Manager: Tracy Hillard	Tracy Hillard				P.O. #:					_							
Address: 3122 N	Address: 3122 National Parks Hwy				company: XTO Energy Inc.	TO Energy	Inc.										
city: Carlsbad		State: NM	ip: 8	Zip: 88220	Attn: Colton Brown	Brown		_									
31:	575-937-3906				Address: 3104 E. Green St.	04 E. Gree	on St.		_								
	03C1558453 & 03C1558587	7 Project Owner:		хто	city: Carlsbad	ad		_						_			
Project Name:	Big Eddy Unit 248 H & 249H	8 H & 249H			State: NM	Zip: 88220											
Project Location:	32.62085,-103.83132	132			Phone #:												_
Sampler Name: Jesse Dorman	esse Dorman				Fax#:								_	_			-
ATMO SERI BYT MO.			MP.	MATRIX	PRESERV	SAMPLING	NG			E				_			_
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)ON # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE ICE / COOL F OTHER:	DATE	TIME	BTEX	1	CHLORIDE	1						
2-15	£301	2.5	7			76.95	50 P	-	- 4	7				++			
ZW.	£503	-					500							+			
EV	508	a					2							+			
× _	£510						1355							+			
الا ا	FSU)	4	1	e-	+	<	300			-				\vdash			
PLEASE NOTE: Lability and Di arialyses. All claims: including the service. Trans-event shall Cardin	bely and Deneges. Cardinal's liability and dis- recluding these for negligance and any other shall Cardinal be liable for incidental or cones	streeds damages, included a cours abustones shad be de cours abustones sandy for any	emed w	rang whether based in contract or tort, what be limited to the amount paid by swed unique, made in witting and received by Cardinal within 10 days after some elector, business their spitch, loss of year, or one of profits nounted by Glent.	act or but, whall be limited to the an and received by Cardinal wittin 30 a, logs of use, or loss of profits inc	to the amount paid with NC cays after raffs incurred by die	ad by the client for the are samplefon of the appli client, its subsidiaries.	, stee									
Relinquished By	ad of a related in the performance	Date: 3/7/25	Receive		Completents smen		Verbal Result: All Results are emailed. BBeilil@ensolum.com	are en	nailed.	Pleas	ase prov	Add'i	☐No Add'l Phone #: Please provide Email address: TMorrissey@ensolum.com,		Thillard@ensolum.com thomason@ensolum.co	Thillard@ensolum.com kthomason@ensolum.com	
Relinquished By	of charlenger	Date: 3/7/25	Rece	Received By:	5	(REMARKS: Incident ID	O NA	ost Ce 92418	nter: 1	Cost Center: 1140201001 LPP2418043567, nAPP24:	001 P2432	147637, NA	PP243	2531235, 1	REMARKS: Cost Center: 1140201001 Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Circle One) O.	1 100	(p o	Sample		CHECKED BY:	Turnaround Time:	D J Ime	Store Constitution	Rush	Standard Rush	200	Standard Bacteria (or Rush Cool Intact	(only)	Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Corrected Temp.	Sample Condition Observed Temp. "C Corrected Temp. "C	
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Page 16 of 17

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

(5	(575) 393-2326 FAX (575) 393-2476	X (575) 393-2476					RECHEST
Company Name:	Ensolum, LLC			BILLTO		WINNE LOSS DEM	- 0.0
Project Manager: Tracy Hillard	acy Hillard			P.O. #:			
Address: 3122 National Parks Hwy	tional Parks Hwy			Company: XTO Energy Inc.	y Inc.		
city: Carlsbad		State: NM	Zip: 88220	Attn: Colton Brown			
ō	7-3906			Address: 3104 E, Green St.	en St.		
	03C1558453 & 03C1558587	7 Project Owner:	хто	city: Carlsbad			
ame:	Big Eddy Unit 248 H & 249H	8 H & 249H		State: NM Zip: 88220	0		
ž	32.62085,-103.83132	132		Phone #:			
Sampler Name: Jesse Dorman	se Dorman			1			
ATMO BBD BRD BOX		p.	MATRIX	PRESERV. SAMPLING	LING		
Lab I.D.	Sample I.D.	Sample Depth (feet)	CONTAINERS ROUNDWATER VASTEWATER OIL OIL SILUDGE	OTHER:	BTEX TPH CHLORIDE		
a coco	£513 £513	3,	7		13851		
Ø.	F515	+	4	*	1350		
				\			
	Y						
PLEASE NOTE: Luckly and Dan problem. All claims: violating from partial transcent shall cardinal	ALLAME MOTE: Labely and Damages. Cardent's fability and of projects. All claims including leader for registerior and any other prices. You be easy shall cardinal be Sable for incidential or communication.	ents estissies was cause windbookers cause windbookers	hedy by any claim arising whether beloed in contents shall be deemined waished criteral made in withing any education and belong to the contents of the medicans.	am printing whitefair based in continuit or tork, shall be limited to the amount paid by the client for the and variance unless made in writing and recorned by Cardinal within 30 days after composition of the applicable out limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidialies.	sort paid by the claim for the against completion of the applicación and by claims, an incluidance.		
Relinquished By:	g out of or related to the performance	Date: 3/1/25	Received By: ///(Dlas CMB) Palles	Parties S.	Verbal Result: UYes (3Ko All Results are emailed. Please p BBetili@ensolum.com TMorris	AddT Phone #: rowide Email address: sey@ensolum.com.	Thillard@ensolum.com kthomason@ensolum.com
Relinquished By:	christmas .	Date: 3/7/25	Received By:		REMARKS: Cost Center: 1140201001 Incident ID: NAPP2418043567, nAPP24	40201001 , nAPP2432147637, NAPP2	EMARKS: Cost Center: 1140201001 Incident ID: NAPP2418043567, nAPP2432147637, NAPP2432531235, NAPP2502042071
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	One)	2 % 3, "" 1 mm. 0	Sample Condition Cool Intact Cool Intact No No No	don CHECKED BY:	Turnaround Time: Standard	Q□	Bacteria (only) Sample Condition Cool Intact Observed Temp. "C Yes
The state of the s			1 190	0			

F08M-006-R 3-2-10/09/21



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/ga/lab accred certif.html.

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

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

Wite South

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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 45 6' (H252510-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	106	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/25/2025 Reported: 05/01/2025

BIG EDDY UNIT 248H & 249H

mg/kg

Project Name: BIG EDDY UNI
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)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
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	95.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	108	% 40.6-15	3						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received: 04/25/2025 Reported: 05/01/2025

BIG EDDY UNIT 248H & 249H

Project Name: Project Number: 03C1558453

Project Location: XTO-EDDY CO., NM Sampling Date: 04/25/2025

Sampling Type: Soil

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

Sample ID: FS 59 4-7.5' (H252510-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105 9	% 40.6-15	3						

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Analytical Results For:

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

Received: 04/25/2025 Reported: 05/01/2025

BIG EDDY UNIT 248H & 249H

Project Name: BIG EDDY UN 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

DIEX 8021B	ilig/	kg	Allalyze	u by. Jn					
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	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	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	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	96.8	% 40.6-15.	3						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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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

Applyzod By: 14

Project Location: XTO-EDDY CO., NM

Sample ID: FS 61 4-7.5' (H252510-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102	% 40.6-15	3						

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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 Tamara Oldaker Sample Received By:

Sample ID: SW 23 0-7' (H252510-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.7	% 40.6-15	3						

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



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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

Page 8 of 9

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Relinquished By:	Relinquished By:	affiliates or successors arising out of or relate	PLEASE NOTE: Liability and Danager. Car analyses. All claims including those for negle service. In no event shalf Cardinal be fiable.				27 75	10	MODELL	CANA	FOR LAB USE ONLY	Sampler Name: Talei	Project Location: Edd	Project Name: 819 6	Project #: 030155 8453	Phone #: 575-937-3906	city: Midland	Address: 601 N Marjenfeld St	Project Manager: TYCKCY	Company Name: Ensolum ILLC	(c/a)
Observed Temp. °C 1/1 Sample Condition CHECKED BY:	eived By:	act to the performance of services instrumentor by Cardinal, reportings of whether such claims is branch capporary of the above to Datic: Post P	indruit's liability and oliver's exclusive secously for any clasm among whether based in command or fort, shall be limited to the amount paid by the class for the ligocoe and any other causes whetherem that he decread waked orders made in writing and received by Cardinal wittin 30 days after completion of the applifor incidental or consequential damages, including without limitedition, bestiess interruptions, loss of use, or too or profits incurred by client, its subsidiaries,	4/25/	SW23 6-7'CI X X V	4-7.5 6	59 4-75 C1 X	C	G W S O S O A	Sample I.D. G)RAB OR (C) CONTAINERS ROUNDWATE WASTEWATER OIL LUDGE OTHER: CE / COOL OTHER:	MATRIX	ha Guodian Fax#:	y County Phone #:	Eddy unit 248H4 249H State: Zip:	453 Project Owner: City:	-3 TOV Fax#: Address:	State: TX Zip: 7970 Attn:	ienfeld St Stc 400 Company:	y Hillard P.O.#:	BILL	0/3) 333-2326 FAA (0/3) 333-24/6
	CC:1140201001 CC:1140201001	All Results are emailed. Please provide Email address:	unti past by the client for the ep ethic completion of the applicable not by client, its subsidiaries,	25	X X X 9401	X X X bhal	1040 X X X	1036 X X		BTEX TPH Chlor	SAMPLING		L	15	50					ANALYSIS REQUEST	



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/ga/lab_accred_certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 03/13/2025 Sampling Date: 03/11/2025

Reported: 03/14/2025 Sampling Type: Soil

XTO 32.62085-103.83132

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 3' (H251493-01)

Project Location:

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.8	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

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

Received: 03/13/2025 Sampling Date: 03/11/2025

Reported: 03/14/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 & 03C1558577 Shalyn Rodriguez

Project Location: XTO 32.62085-103.83132

Sample ID: FS 13 3' (H251493-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	92.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	100 9	% 40.6-15	3						

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Celeg D. Keene



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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	93.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105 9	% 40.6-15	3						

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Celey D. Keene



Shalyn Rodriguez

Analytical Results For:

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

 Received:
 03/13/2025
 Sampling Date:
 03/11/2025

 Reported:
 03/14/2025
 Sampling Type:
 Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact

 Project Number:
 03C1558453 & 03C1558577
 Sample Received By:

 Project Location:
 XTO 32.62085-103.83132

Sample ID: FS 33 2' (H251493-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2025	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: 03/13/2025 Sampling Date: 03/11/2025

Reported: 03/14/2025 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H & 249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 & 03C1558577 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.62085-103.83132

ma/ka

Sample ID: FS 34 2' (H251493-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103	% 40.6-15	3						

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Celey D. Keine



Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keine

FORM-006 R 3 2 (007/2)

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

Ø

Corrected Temp. "C

101 East Marland, Hobbs, NM 88240

Relinquished By Relinquished By: Sampler - UPS - Bus - Other analyses. At claims archading those for bennice, in no event shalf Caudinal be to Delivered By: (Circle One) PLEASE NOTE: Liabbly and Sampler Name: Jesse Dorman Project Location: 32.62085,-103.83132 Phone #: Project Manager: Tracy Hillard Address: 3122 National Parks Hwy Lab I.D. Company Name: 575-937-3906 03C1558453 & 03C1558577 Big Eddy Unit 248 H & 249H Sample I.D. (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC 0 31.03. des Time: Date: Sample Depth Fax #: Bas State: NM Project Owner: (feet) 0 Received By: Received By: (G)RAB OR (C)OMP Zip: 88220 CONTAINERS XTO GROUNDWATER Sample Condition WASTEWATER made in writing and racewar by Cardinal within 30 days after MATRIX OIL SLUDGE OTHER State: NM Fax #: Phone #: city: Carlsbad Address: 3104 E. Green St P.O. # Attn: Colton Brown Company: XTO Energy Inc. ACID/BASE PRESERV CHECKED BY: ICE / COOL OTHER BILL TO Zip: 88220 DATE red by clear, its sub-SAMPLING All Results are emailed. Please provide Email address: #130 to 3 REMARKS: BBelili@ensolum.com Incident ID: NAPP241804358P, nAPP2432N 338 818 226 on of the up BTEX Cost Center: 1140201001 Yes TPH Standard TMorrissey@ensolum.com, CHLORIDE ONO Add'l Phone #: ANALYSIS Bacteria (only) Sample Condition 7637, NAPP2432531235, NAPP2502042071 REQUEST kthomason@ensolum.com Thillard@ensolum.com Observed Temp, "C

Page 8 of 8

From: <u>Tacoma Morrissey</u>
To: <u>Wells, Shelly, EMNRD</u>

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,

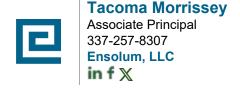
I appreciate you reaching out about these questions. The photos all include coordinates and a brief description, though in the future we will provide additional detail. Perhaps there is an issue during upload that makes the photos unclear?

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!



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:

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 882200 | ensolum.com

- 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.



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.



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 consituents 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;



- 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 reseeding 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.

ashley L. ager

Ashley Ager, PG, MS

Sincerely, **Ensolum, LLC**

Tracy Hillard Project Engineer

Tour Hotal

ineer 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 Remediation Work Plan; dated September 20, 2024



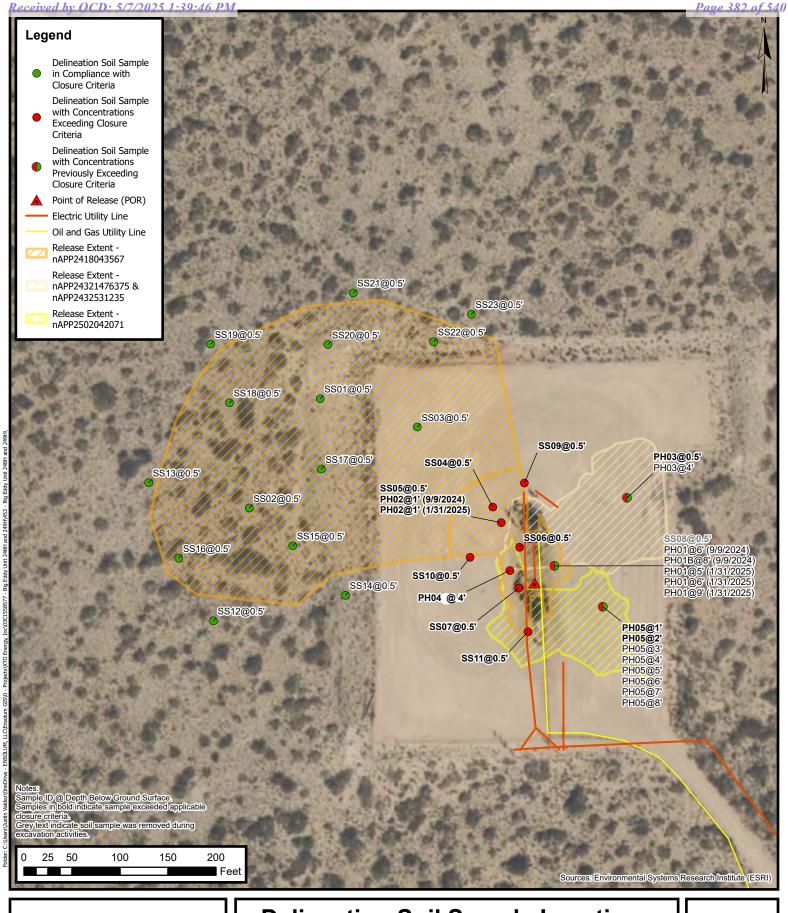
Laboratory Analytical Reports & Chain-of-Custody Documentation NMOCD Correspondence

Appendix E





FIGURES

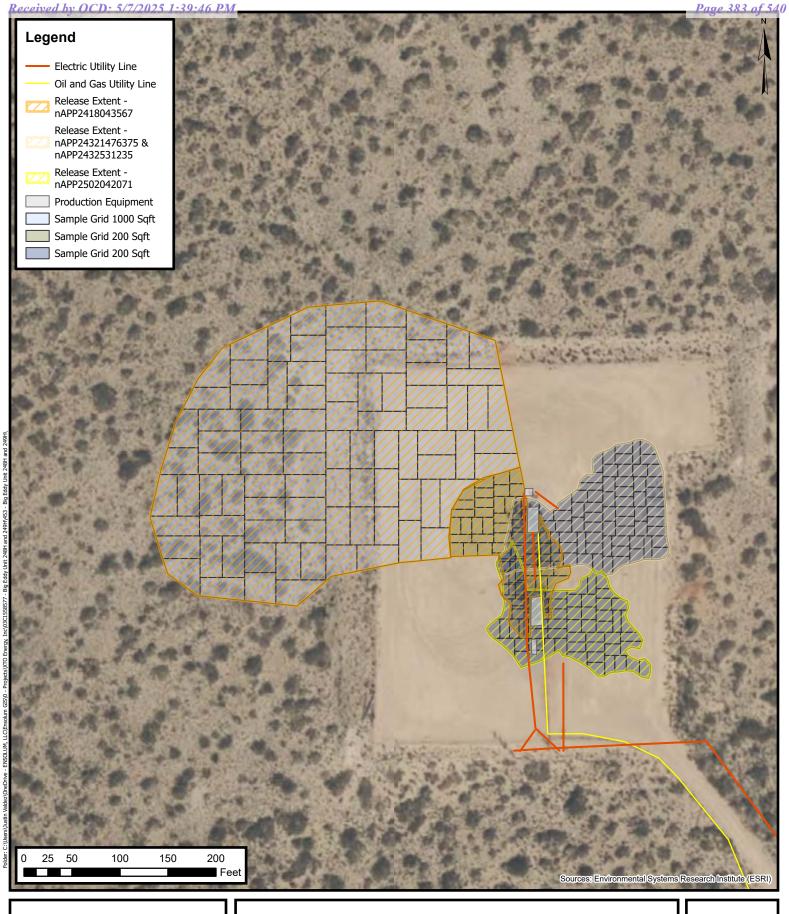




Delineation Soil Sample Locations

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

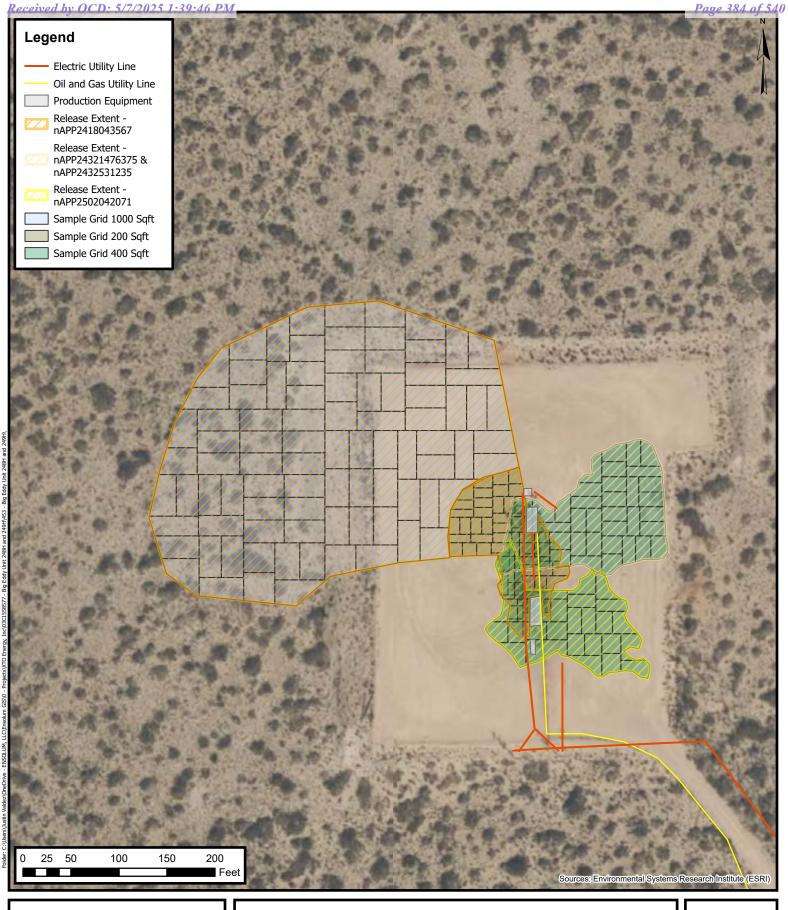




Proposed Excavation Extent - 200 square foot frequency

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





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 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delin	neation Soil Sar	nples				
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

Ensolum 1 of 2



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 CI	osure Criteria (l	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

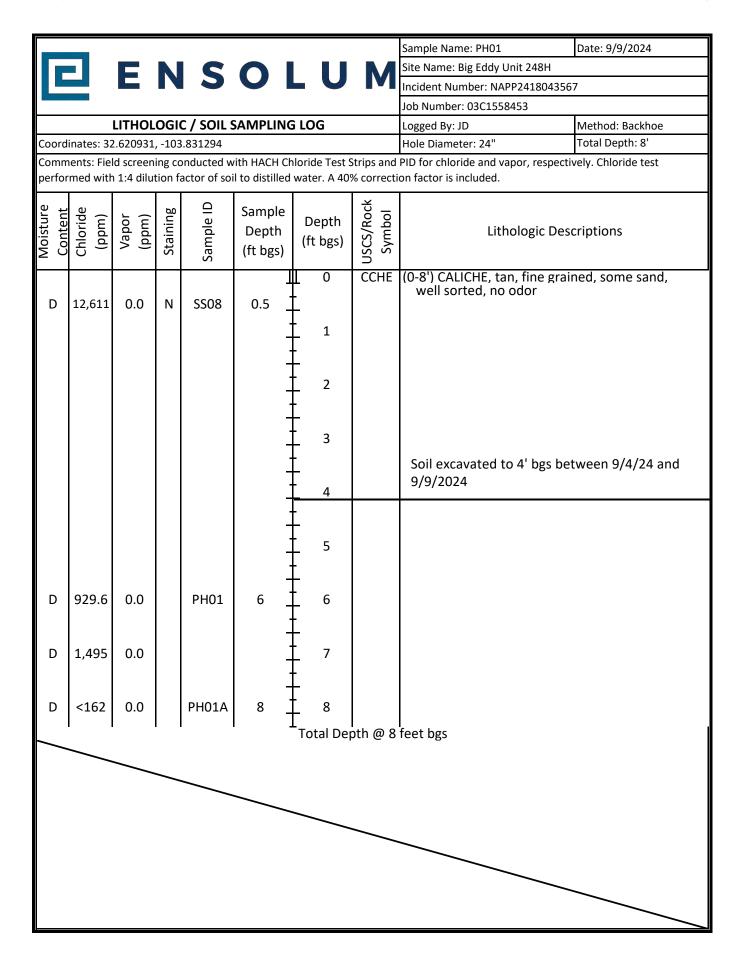
NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

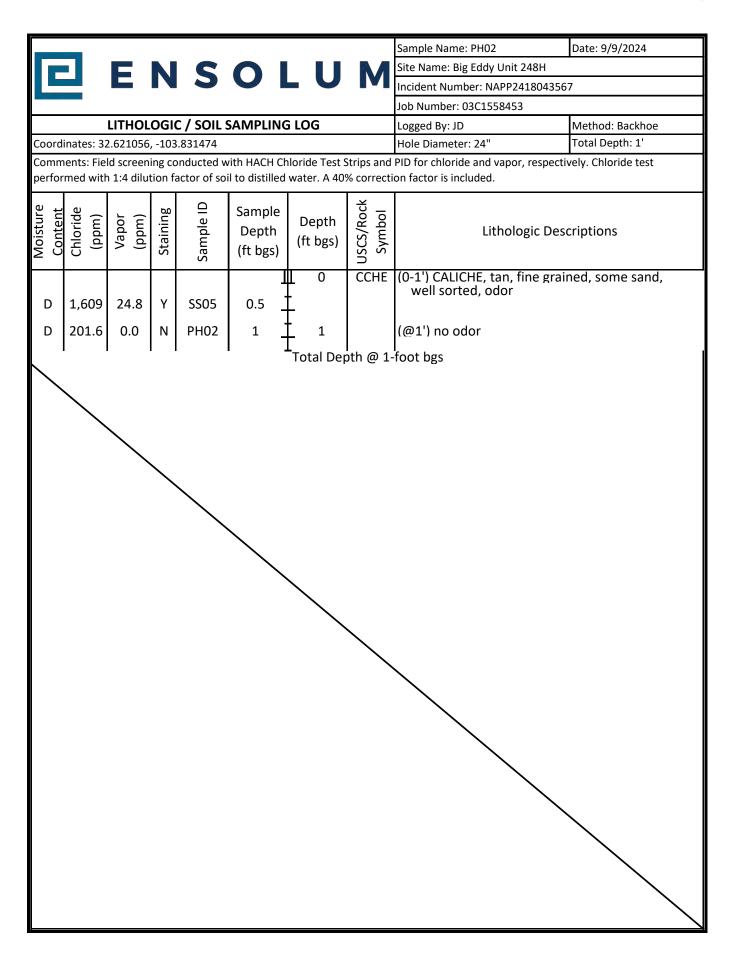


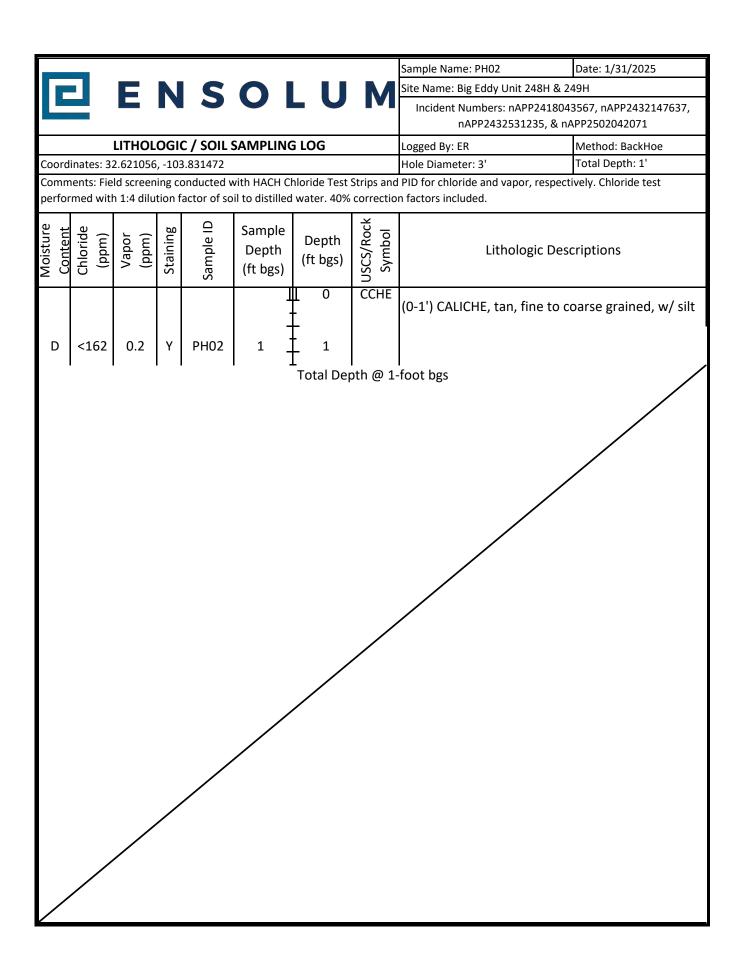
APPENDIX A

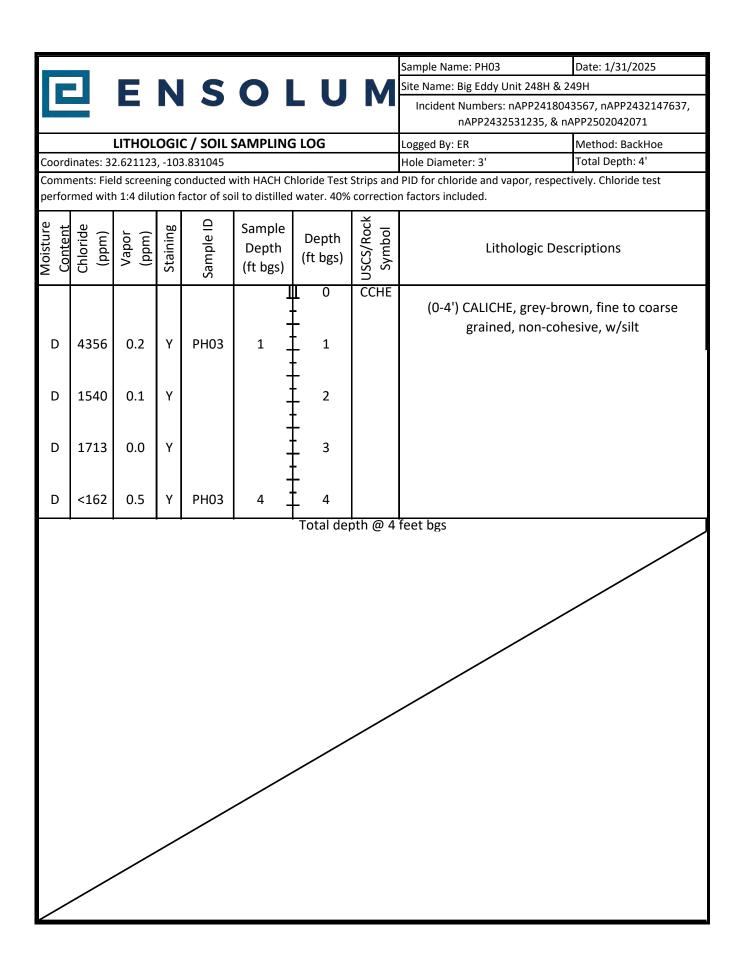
Lithologic Soil Sampling Logs

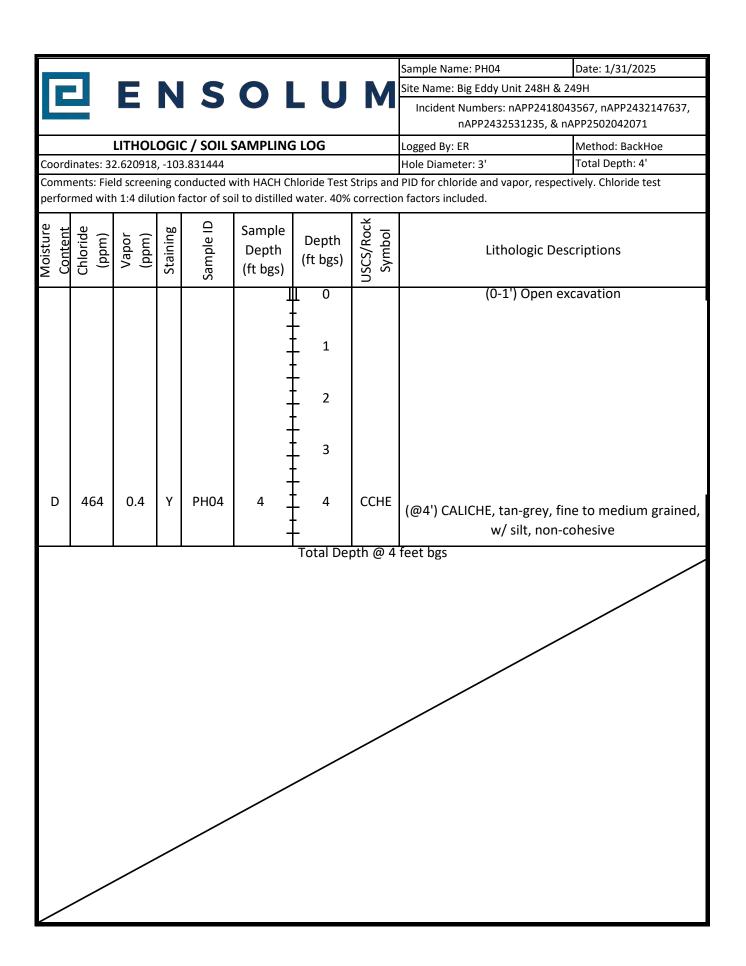


								Sample Name:PH01	Date: 1/31/2025
	7								
E			N		U	LU	V	Site Name: Big Eddy Unit 248H & 2 Incident Numbers: nAPP241804	3567, nAPP2432147637.
								nAPP2432531235, & n	
		LITHOL	OGI	C / SOIL	SAMPLING	LOG		Logged By: ER	Method: BackHoe
	inates: 32							Hole Diameter: 3'	Total Depth: 9'
			_					PID for chloride and vapor, respec n factors included.	tively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
					1	0		(0-5') Open ex	cavation
	274	0.4	>	DUO		1 2 2 3 4 4 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	CCLLE		
D	274	0.4	Υ	PH01	5 <u> </u>	5	CCHE	(0-9') CALICHE, tan-gray, coa cohesiv	_
D	162	0.4	Υ	PH01	6	- 6 -			1
D	<162	0.7	Υ		- - -	- - 7			
D	<162	0.6	Υ		- - -	- _ 8 -			
D	<162	0.5	Υ	PH01	9 _	9	SP-SC	(@9') SAND, brown, fine to w/silt	
						Total Dep	oth @ 9		
						2 23. 20	3		









								I	
		_						Sample Name: PH05	Date: 1/31/2025
1			N	S	0 1	L U	M	Site Name: Big Eddy Unit 248	
	- 0							meraene reambers. III a 1 2	118043567, nAPP2432147637, 5, & nAPP2502042071
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: ER	Method: BackHoe
Coord	inates: 3	2.620811	, -103	3.831131				Hole Diameter: 3'	Total Depth:8'
								PID for chloride and vapor, re n factors included.	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions
					I -	<u> </u>	CCHE		y, fine to medium grained, on-cohesive
D		554.6	Υ	PH05	1 _	1		w/ siit, ii	on concave
D		70.2	Υ	PH05	2	- _ 2			
D		32.3	Υ	PH05	3	- - 3			
D		35.9	Υ	PH05	4	- - 4			
D		27.7	Υ	PH05	5 <u>-</u>	- - _ 5 -			
D	<162	5.8	Υ	PH05	6	- - 6			
D		10.7	Υ	PH05	7	- - 7 -			
D	<162	4.6	Υ	PH05	8	- _ 8	b. 0.0	forther a	
						Total Dep	otn @ 8	reet 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

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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 consituents 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.



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.



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 reseeding 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.

ashley L. ager

Principal

Ashley Ager, PG, MS

Sincerely, Ensolum, LLC

Tacoma Morrissey, MS Associate Principal

cc: Colton Brown, XTO Kaylan Dirkx, XTO

Mouissey

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 Appendix B Lithologic / Soil Sampling Logs

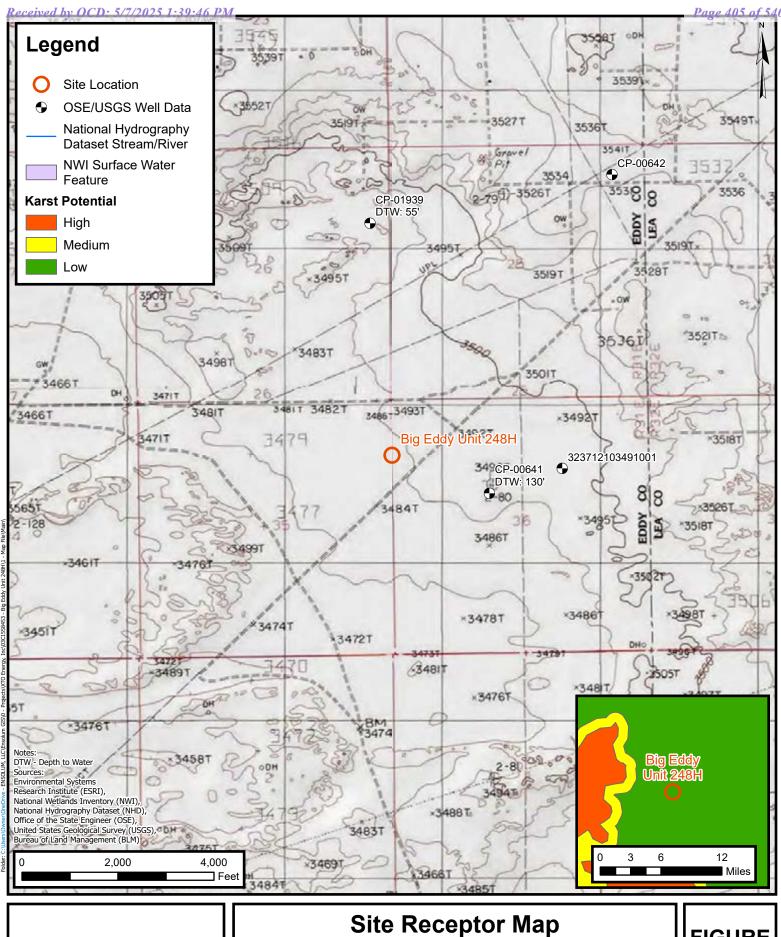
Appendix C Photographic Log



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

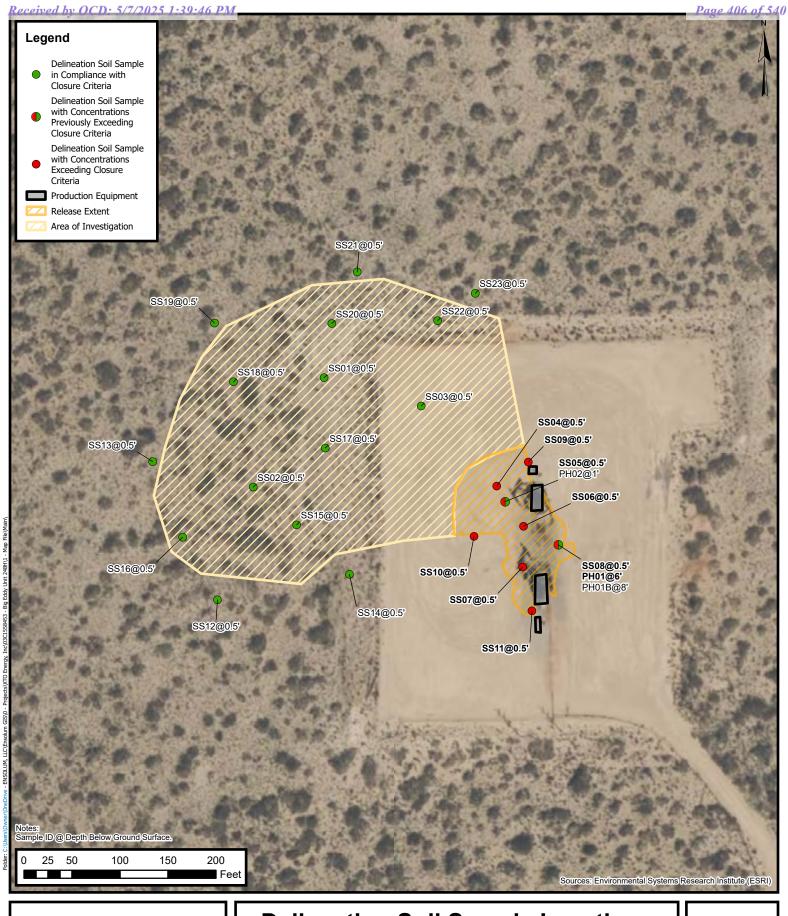








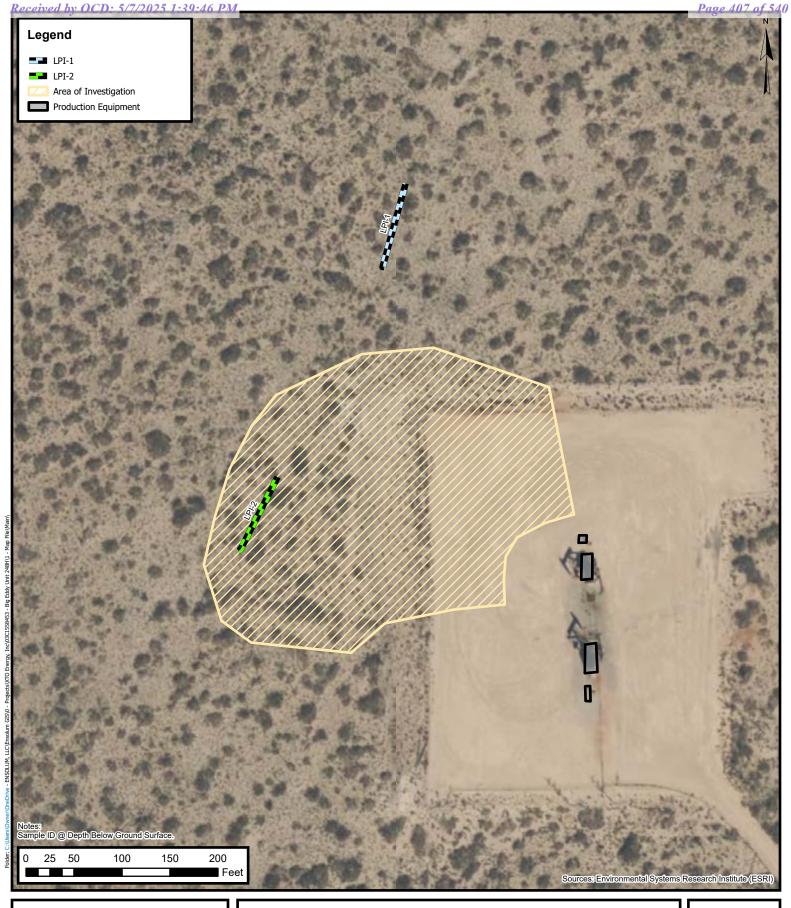
XTO Energy, Inc Big Eddy Unit 248H Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico





Delineation Soil Sample Locations

XTO Energy, Inc Big Eddy Unit 248H Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico



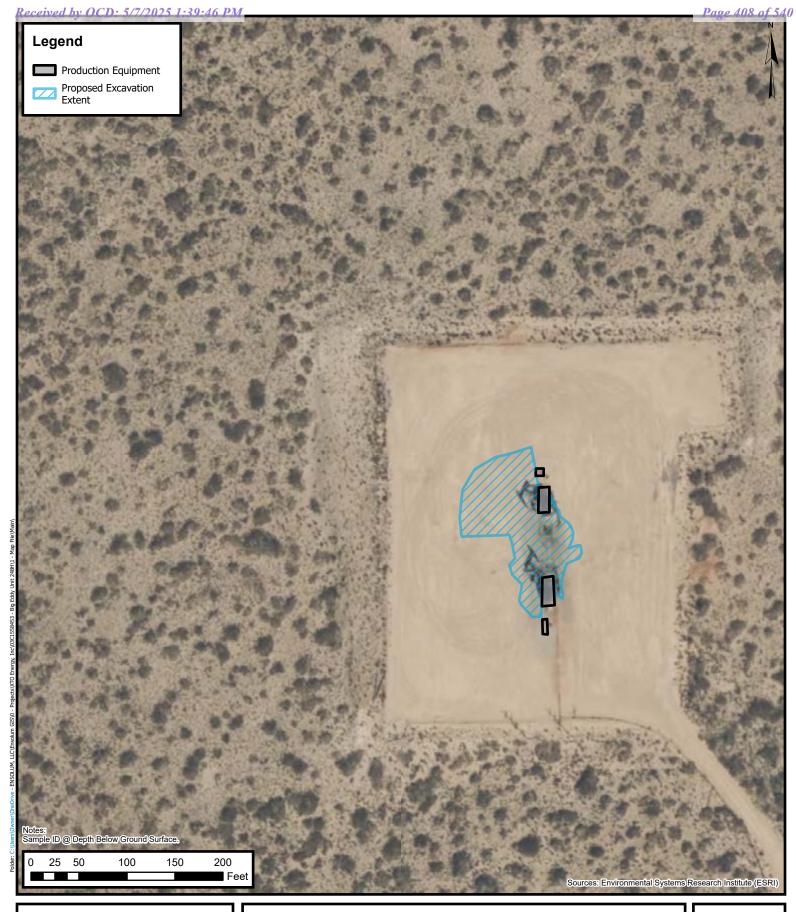


Vegetation Survey Transects

XTO Energy, Inc

Big Eddy Unit 248H

Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico





Proposed Excavation Extent

XTO Energy, Inc Big Eddy Unit 248H Incident Number: NAPP2418043567 Unit A, Sec 35, T19S, R31E Eddy County, New Mexico



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 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delin	neation Soil Sa	mples				
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

Ensolum 1 of 2



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 Cl	osure Criteria (I	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 $\ensuremath{\textbf{bold}}$ 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

Ensolum 2 of 2



APPENDIX A

Referenced Well Records





Revised June 1972

STATE ENGINEER OFFICE **WELL RECORD**

SANTA FE

Section 1. GENERAL INFORMATION

A) Owner of	f wellPh	illips Pe	troleum			Own	er's W	ell No. CP-	-641-Exp1
Street or	Post Office Add	dress	P.O.Box	2130 M 88240					
					_ and is located	## in the: 1600	FNL	1600' FW	L
a	¼ ¼	SE 1/4 NV	¼ ¼ of Se	ection _36	Township	195 Ra	ınge	31E	N.M.P.N
					· ·				
Subdi	vision, recorded	in	Ed	<i>dy</i>	County.				
tho					.M. Coordinate S				Gran
D.::::	744	Larry's	Orillin	g	, NM 88240	Licana No	wo	382	Olan
) Drilling (contractor	2601 W.	Bender	Hobbs	, NM 88240	Licelise No		· · · · · · · · · · · · · · · · · · ·	
					_ Type tools				
								**	•
evation of la	nd surface or			at we	II is	_ ft. Total dept	h of w	ell	f
ompleted wel	ll is 🔲 sh	allow 🗆 . a	rtesian.tes	t hole	Depth to water	upon completio	n of w	ell <u>13</u>	0 f
		Sec	tion 2. PRIN	CIPAL WATE	R-BEARING ST	RATA			
Depth	in Feet	Thickness in Feet		Description of	Water-Bearing F	ormation		Estimated (gallons per	
From	То	III Feet				· · · · · · · · · · · · · · · · · · ·	- 	(ganons per	minute)
					• •				
· · · · · · · · · · · · · · · · · · ·									
	<u> </u>	<u>.</u>		2 DECORD	OF CASING				
Diameter	Pounds	Threads		on 3. RECORD in Feet	Length			Perf	orations
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Sh	.oe	From	То
<u>5½</u>	160PVC		<u> </u>	220					<u> </u>
		į			,			10.5	
	1	Section	on 4 RECO	RD OF MUDD	ING AND CEMI	ENTING		. 1	<u> </u>
	in Feet	Hole	Sac	ks C	ubic Feet		od of	Placement	
From	То	Diameter	of M	lud o	f Cement		·······		
		! 							
÷	1 m	p#							
		Town In							
			Section	on 5. PLUGGIN	IG RECORD				
ugging Contr	actor	7.4		JH 3. 1 E G G G H					
idress	- N 	#24 #44			No.	Depth in			Cubic Feet
ugging Metho ate Well Plug		(TI)				Тор	Bot	tom C	of Cement
ugging appro	~				2				
		State Eng	ineer Repres	sentative	3 4				
	···		FOR HEE	OF STATE E	NGINEER ONL'	Y			
ate Received	Februarv	23, 1982	TOR USE						
	 3	,		Quad		FWL		FS	L

____ Use _

19.31.36.14114 ___ Location No._

Depth in Feet		OCD: 5/7/2025	1	Section 6. LOG OF HOLE	Page 414
1 2 1 caliche 2 18 16 white sand 18 40 22 brown sand 40 100 60 brown sand 8 gravel 100 182 82 brown sand gravel 182 200 18 brown clay gravel 200 292 92 brown clay			Thickness in Feet	Color and Type of Material Encountered	
2 18 16 white sand 18 40 22 brown sand 40 100 60 brown sand 8 gravel 100 182 82 brown sand gravel 182 200 18 brown clay gravel 200 292 92 brown clay			 	topsoil	
2 18 16 white sand 18 40 22 brown sand 40 100 60 brown sand 8 gravel 100 182 82 brown sand gravel 182 200 18 brown clay gravel 200 292 92 brown clay	1	2	1	callche	
18 40 22 brown sand 40 100 68 brown sand 8 gravel 100 182 82 brown sand gravel 182 200 18 brown clay gravel 200 292 92 brown clay	2	18	16	white sand	
100 182 82 brown sand gravel 182 200 18 brown clay gravel 200 292 92 brown clay	18	40	+	brown sand	
182 200 18 brown clay gravel 200 292 92 brown clay	40	100	60	brown sand 8 gravel	
200 292 92 brown clay	100	182	82	brown sand gravel	
	182	200	18	brown clay gravel	
292 300 8 Aed bed	200	292	92	brown clay	
	292	300	8	red bed	
		a			
		-			
				•	
	·				
				: '	

Section 7. REMARKS AND ADDITIONAL INFORMATION

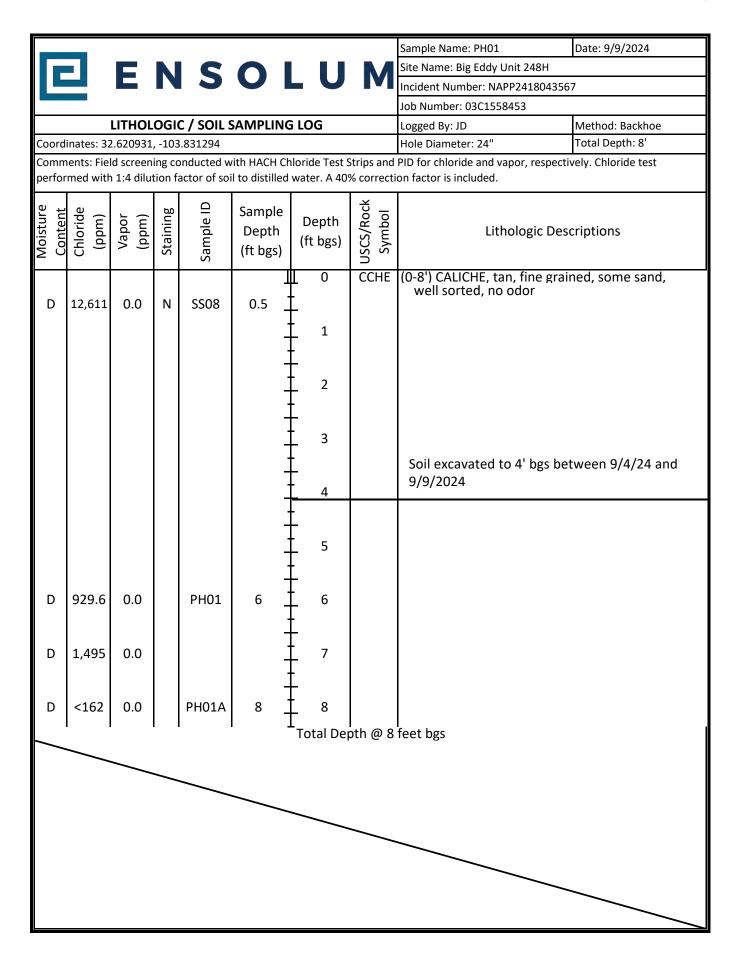
The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

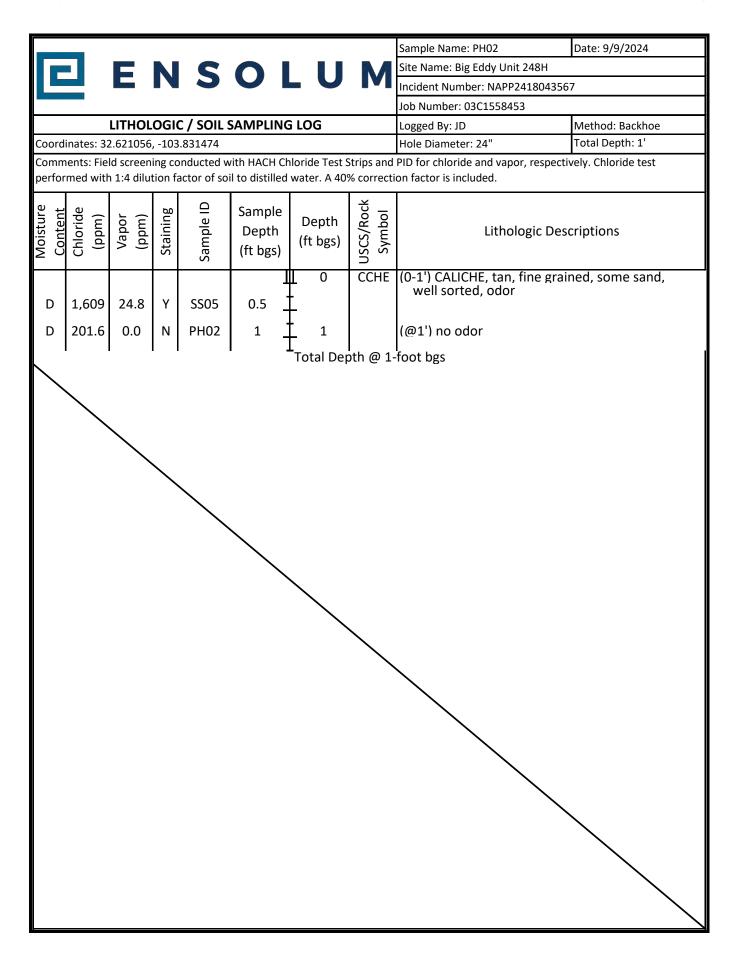
INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except extion 5, shall be answered as completely and occurately as possible when any well is drilled, repaired or deepened. When this except except except of the State Engineer is a specific to the appropriate district office of the State Engineer. All sections, except except except except of the State Engineer is a specific to the appropriate district office of the State Engineer. All sections, except ex



APPENDIX B

Lithologic Soil Sampling Logs







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

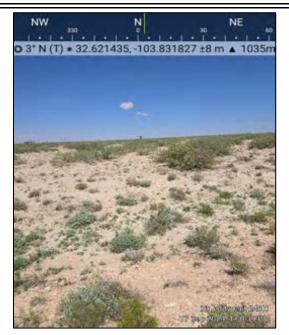
View: Northeast



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



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 01 .5' (H244536-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 02 .5' (H244536-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 03 .5' (H244536-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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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	Analyze	d 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 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129 9	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 05 .5' (H244536-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	147	% 49.1-14	'8						

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Celey D. Keine



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 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 06 .5' (H244536-06)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	153 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 07 .5' (H244536-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	oloride, SM4500Cl-B mg/kg			d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 08 .5' (H244536-08)

BTEX 8021B

	9/	9	7						
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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07/29/2024

Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date:

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 09 .5' (H244536-09)

BTEX 8021B

DILX OUZID	mg/ kg		Analyzea by. 311						
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% 71.5-13		4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	78.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 10 .5' (H244536-10)

BTEX 8021B

DILX GOZID	ilig/ kg		Analyzea by. 311						
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	98.0 % 71.5-13		4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

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07/29/2024

Alyssa Parras

Sampling Date:

Sample Received By:

Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024

Reported: 08/02/2024 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Number: 03C1558453

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 11 .5' (H244536-11)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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07/29/2024

Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date:

Reported: 08/02/2024 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 12 .5' (H244536-12)

BTEX 8021B

	9,	9	7	7: 5::					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 13 .5' (H244536-13)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: David Mcinnis		BILL TO	ANALYSIS REQUEST
Address: 3122 National Parks Hwy	2	P.O.#:	
city: Carlsbad	State: NM Zip: 88220	Amy Rith	
4	Fax#:	Address: 3104 E. Greene St.	
30	Project Owner: XTO		
Project Name: Big Eddy Unit 248H	IBH H8i	State: NM Zin: 88220	
Project Location: 32.62087	703, 43145		
Sampler Name: Jesse Dorman		Fax #	
FOR LAB USE CHEY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.		ASE:	
H244634	(G)RAB # CONT GROUN WASTER SOIL OIL SLUDGE	OTHER : ACID/BA ACID/BA ICE / CO OTHER : DATE TIME	BTEX TPH CHLO
	1	7/29/200	1
3 5553		09:40	
H055 h			
8		11:00	
7 400		50.11	777
		02:11	
0		6 1111	
VLAME NOTE: Labely and Clamages: Certifical's labelity and clam's religions. All claims including bosis for engigencies and any other caus service. In no years and Current.	exclusive humarly for any claim arrang whether based in caraptition and an exclusive market between what has determed watered screens in only in written and an exclusive market by the contract of the contra	5 st lango ma si para paraura ma si paranja si pran bas	
Relinquished By:	4.3	e of use, or loss of posts societed by dient, its subaddieses, meet upon any of the above stated requires or streaming.	appropri
n	1425 O SOLLA	Verbal Results are hheliti@area	Verbal Result: O yes O No Add'I Phone #: All Results are emailed. Please provide Email address:
celinquished By:	Date: Received By:	a Burana	ocennigenschum.com, i Mornssey@ensolum.com, dnichnis@ensolum.com
	Time:	Cost Center.	Inder: 1140201001 Incident ID: nAPP2418043567
Sampler - UPS - Bus - Other: Correct	Sample Condition Cool Intact Pes Tyes No No	CHECKED BY: Turnaround Time:	Time: Standard M Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. 'C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

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

Company Name: Ensolum, LLC	TTC	BILL TO	ANALYSIS REQUEST
Project Manager: David Mcinnis	nis	P.O. #:	CHARLES OF VERGOES
Address: 3122 National Parks Hwy	arks Hwy	Company: XTO Energy Inc.	
city: Carlsbad	State: NM Zip: 88220	Attn: Amy Ruth	
4		Address: 3104 E. Greene St.	
Project #: 03C1558453	Project Owner: XTO		
Project Name: Big Eddy	Big Eddy Unit 248H	State: NM 7in: 88220	
Project Location:		3.0	
Sampler Name: Jesse Dorman	n	Fax #	
FOR LAB USE DIKLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	Sample Depth B OR (C)OMP TAINERS NDWATER EWATER	ASE:	ORIDE
KBH4634	GROU	OTHER ACID/E ICE / C OTHER DATE	BTE
	.5. 64 1	1 84874 1	1
120 25 12		13/50	
1	4	4 4 1235	
		1	
CEASE NOTE: LINES AND COLORS	577		
melyees. All claims including incom for negligenus as ervices. In no every easif Certificat be lastic for excises fillants or successors assume and of or related to the pr	center shall be deprined waked union ages, including willout limitation, but https://doi.org/10.1001/j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.	⁴⁸ Steed or Contago or tor, shall be linked to the amount paid by the cleent to the shinked in willing and societed by Carginal within 30 days after completion of the a Steeds interruption, loss of case, or loss of pottle incomed by cleen, the subsplayer, "shellow such of the steed clippo in you'd the above stated in resonance or otherwise."	ne explication ex
04	7. 30 Zu Received By:	All Results are	suit: D Yes 3 No Add'l Phone #:
Mon	٠,	bbelliger	bbelil@ensolum.com, TMorrissav@ensolum.com dmofreis@essolum.com
xeinquished By:	Date: Received By:	REMARKS: Cost Center:	enter: 1140201001 Incident ID: nAPP2418043467
Delivered By: (Circle One)	Cool Intact	on CHECKED BY: Turnaround Time:	Standard
Jetto - sng - ean-aiduse	D Xe		140
			1000



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 accredited certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY Project: BIG EDDY UNIT 248H iect Number: 03C1558453

Reported: 17-Sep-24 15:23

CARLSBAD NM, 88220

Project Number: 03C1558453
Project Manager: DAVID MCINNIS

Fax To:

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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Celey D. Kreene



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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	752		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s 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	JН	10-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091019	JН	10-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091019	JH	10-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pi	TD)		105 %	71.5	-134	4091019	ЈН	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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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
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compound	s 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 (F	PID)		106 %	71.5	-134	4091019	ЈН	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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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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		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 (PIL))		103 %	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			100 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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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
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds	s 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 (Pl	D)		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			96.4 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celey D. Keene



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
			Cardina	l Laborat	ories					
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 C	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	
Surrogate: 1-Chlorooctadecane			113 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celeg D. Keens



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
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	192		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 (PII	0)		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*	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	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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	%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 &	z Analyzed:	11-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4091126-BSD1)				Prepared &	z Analyzed:	11-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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Celey D. Kreene



%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

o-Xylene

Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Spike

Level

2.00

6.00

0.0500

Source

Result

%REC

92.5

96.0

101

86.1-125

88.2-128

71.5-134

12.9

12.4

16.7

Fax To:

Reporting

Limit

Result

1.85

5.76

0.0504

0.050

0.150

mg/kg

mg/kg

mg/kg

Reported: 17-Sep-24 15:23

RPD

Limit

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Blank (4091019-BLK1)				Prepared & Analy	yzed: 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 & Analy	yzed: 10-Sep-24	ļ			
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 & Analy	yzed: 10-Sep-24	ŀ			
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	

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Celey D. Keen



%REC

Limits

48.2-134

49.1-148

118

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Spike

Level

50.0

50.0

Source

Result

%REC

Fax To:

Reported: 17-Sep-24 15:23

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

54.7

58.9

Blank (4091016-BLK1)				Prepared & Ana	lyzed: 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 & Ana	lyzed: 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 & Ana	lyzed: 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	

mg/kg

mg/kg

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



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. Keens

Celey D. Keene, Lab Director/Quality Manager

Page 12 of 13

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories

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

Address: 3122 National Parks Hwy	T.O. 11		and and and and and and and and and and
930	Company: XTO Energy Inc.	Energy Inc.	
Phone #: 409-454-3009 Fax #:	02700 dry		
Project #: 03C1558453	piect Owner: XTO	Green St.	
Project Name: Big Eddy Unit 248H	2		
7.		88220	
S	Phone #:		
FOR LAB USE ONLY	Fax#:		
	S MATRIX	SAMPLING	
Lab I.D. Sample I.D. Sam	VSE:	RIDE	
* Sh548	# CONT GROUN WASTE SOIL DIL SLUDGE DTHER ACID/BA CE / GO DTHER	BTEX PH	
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		305	
2000	27.00	1255	
C. C. C. C. C. C. C. C. C. C. C. C. C. C	- GX 4	15/0/	
99			
SARE NOTE: Linking and Demages, Cardina's sporily and clerifs exclusive signers. All claims including those for executions.	Amount for any crisis and only whether beautiful to contract or only of the risk change.		
when, it no event shalf Central ha state for sociations of consequents demand the processor arrange out of or related to the performance of senders he eliminates he desired by: Option Opt	even shall be deemed washed unless made in wating and increased by Cerdinal within 30 days gas, including without immation, business interruptions, turn of day, or loss of profits incurrent sessories by Cerdinal reportions of whether such blaim interred opport any of the whole states	rison by the claim for the after completion of the applicable by claim, its subschallers.	
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Time:	Received By:	Custo20100	Justed Inchan
mpler - UPS - Bus - Other		Turnaround Time: Statidard Sactor	Bacteria (only) Samula Condition
TORINGO ROLL HOURS	Carrelload cannot No No No Carrelload Form and July C	Thermometer D +++3 945 Continued Trees Yes	Yes Observed Temp. "C



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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024
Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 14 .5' (H245642-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 15 .5' (H245642-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 16 .5' (H245642-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 17 .5' (H245642-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 %	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 18 .5' (H245642-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 19 .5' (H245642-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 20 .5' (H245642-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 21 .5' (H245642-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

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	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024
Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 23 .5' (H245642-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FA	FAX (575) 393-2476			
		BILL TO		ANALYSIS REQUEST
Project Manager: David Mcinnis		P.O. #:		
Address: 3122 National Parks Hwy	y	Company: XTO Energy Inc.	Inc.	
city: Carlsbad	State: NM Zip: 88220	Attn: Amy Ruth		
5		Address: 3104 E. Green	n St.	
Project#: 03C1558453	Project Owner: XTO	city: Carlsbad		
am		State: NM Zip: 88220		
Ä	33145	Phone #:		
Sampler Name: Jesse Dorman		Fax#:		
FOR DISTURBUSED ONLY	MATRIX	PRESERV. SAMPLING	ING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER: DATE	BTEX TPH CHLORIDE	
6155 T	20		1 1000	
2155			136	
2155 h			988	
9,156			174	
7 5500			1 841	
1895 8			1 23 1	
5,857 0	7 74 1	4	NY YW	
N.E.ASE NOTE: Liability and Damages. Cardinal's liability and clear's excitations and allows settled by the cause with molyses. At clears, settleding those for negligenous and any other cause with annual for situation in the mentatival Cardinal by liabile for incidental or consequential of	aba samady for any claim arising who ascener shall be deemed wahed uni- smages, including willoud lenkation, b	other bassed in contract or bot, shall be timited to the amount past by the claimt for the sea made in writing and mocked by Cardinal within 30 days after completion of the applicable survives interruptions, loss of sea, or loss of profits incurred by client, its subsidiaties.	pact by the claimt for the after completion of the applicable by client, its subsidiaties.	
Relinquished By:	Date: 1 CReceived By:	Came in based upon earl of the above seems than	146.5	© No Add'i Phone #: Please provide Email address:
man /	40000 III	ionale		Drichnis@ensolum.com TMorrissey@ensolum.com, kthomason@ensolum.com
Relinquished By:	Date: Received By:	d	REMARKS: Cost Center: 114	1140201001 Incident ID: NAPP2418043567
	75,13	act (Initials)	# C. II	Bacteria (only) S Cool Intact Ores Yes
Sampler - UPS - Bus - Other: C	Commenter CO. 92 Bros Pros	-/	B4	HNO No Corrected Temp. *C



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 07/30/2024
 Sampling Date:
 07/29/2024

 Reported:
 08/02/2024
 Sampling Type:
 Soil

Reported: 08/02/2024 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact

Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 01 .5' (H244536-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 02 .5' (H244536-02)

BTEX 8021B	mg/	/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	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	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62087 -103.83145

ma/ka

Sample ID: SS 03 .5' (H244536-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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07/29/2024

Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date:

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 04 .5' (H244536-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 05 .5' (H244536-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	147 9	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 06 .5' (H244536-06)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	153 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 07 .5' (H244536-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 08 .5' (H244536-08)

BTEX 8021B

DILX GOZID	mg/	ng .	Andryzo	u by. 511					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 09 .5' (H244536-09)

BTEX 8021B

	9,	9	7	7: 5::					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 10 .5' (H244536-10)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

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Celey D. Keine



07/29/2024

Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date:

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 11 .5' (H244536-11)

BTEX 8021B

	9,	9	7	7: 5::					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62087 -103.83145

mg/kg

Sample ID: SS 12 .5' (H244536-12)

BTEX 8021B

	9,	9	7	7: 5::					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/29/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62087 -103.83145

ma/ka

Sample ID: SS 13 .5' (H244536-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 8824

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

Project Manager: David Mcinnis		01		ANALYSIS REQUEST
Address: 3122 National Parks Hwy		P.O.#:		
city: Carlsbad	State: NM Zip: 88220	Amy Amy Rith	127	
409-454-3009		Greene	82	
Project #: 03C1558453	oject Owner: XTO		100	
COL		State: NM 7in: 88220	_	
Project Location: 32.62087	Ja3 43145	Phone #		
Sampler Name: Jesse Dorman		Fav #	_	
FOR UR DISCOULY	MATRIX	1		
	R	SAMPLING		
Lab I.D. Sample I.D. S	G)RAB OR (C)C CONTAINERS ROUNDWATER VASTEWATER OIL IL LUDGE		BTEX PH HLORIDE	
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n	The 28 O Sur Car	Verbal Result: All Results are	Verbal Result:	Add'l Phone #: vide Email address:
normquisned by: Da	Date: Received By:	REMARKS.	MARKS: Cost Center: 1140201001	EMARKS: Cost Center: 1140201001
Sampler - UPS - Bus - Other: Correct	Sample Condition Cool Intact Cool Intact No No	CHECKED BY: Turnaround Time: (Initials) Thermometer ID #1	9 3	Bacteria (only) Sample Condition Cool Intact Observed Temp. 'C

Page 16 of 17

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories 101 East Marland, Hobbs, NM 8824

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

State: NIM Zip: 88220 Attn: Amy Ruth Fax #: Project Owner: XTO City: Carlsbad Project Owner: XTO City: Carlsbad State: NIM Zip: 88220 Phone #: Fax #: F	Company Name: Ensolum, LLC		מד נוום		
Address: 3104 E. Greene St. C1558453 Project Owner: XTO Big Eddy Unit 248H Sample Depth G Name: XTO Sample Depth G Name: XTO City: Carlsbad Fax 8: Address: 3104 E. Greene St. City: Carlsbad Shate: NM Zip: 88220 Phone 8: Fax 8:	Project Manager: David Mcinnis			A	NALYSIS REQUEST
Sample I.D. Sample Depth COR State: NM Zip: 88220 Sample Log. Sample Depth COR State: NM Zip: 88220 Phone #: Pesses Dorman MATRIX Pesses Rev. MM Zip: 88220 Phone #: Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Phone #: Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Phone #: Phone #: Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Phone #: Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Phone #: Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Phone #: Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Phone #: Phone #: Posses City: Carlsbad State: NM Zip: 88220 Phone #: Phone #: Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Phone #: Phone #: Phone #: Project Owner: XTO City: Carlsbad Phone #: Phone #: Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Phone #: Phone #: Phone #: Phone #: Project Owner: XTO City: Carlsbad Phone #: Pho	Address: 3122 National Parks H	lwy	Company XTO Energy Inc		
Sample LD. Sample Depth City Carls Sade: NM Zip: 88220	Ca		Arm Amy Ruth		
Big Eddy Unit 248H Big Eddy Unit 248H Sample Depth G G G G G G G G G G G G G G G G G G G		10	Greene		
Description of the particular	100	Project Owner: XTO			
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Sample I.D. Sample Depth (COS	Project Location:		-3.2		
Sample I.D. Sample Depth (C) Sample Dep	Sampler Name: Jesse Dorman		Fax #		
Sample I.D. Sample Depth (C) O PART (Feet) (Feet) AB OR RESERVED BY (Feet) ACCIDINATE TIME BY THE CONTRIBUTION OF THE CONTRI	FOR LAB USE ONLY	MATRIX	PRESERV.	_	
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SS 13 SS 13 SS 13 SS 13 SS 14 SS 15 SS	184463V	GROU WAST SOIL	ACID/E	ВТЕ	
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Date: Received By: Received By: Remarks: Remarks: Cost Center: 1140201001 Incident Checked By: Cost Center: 114	041	20.24	Verbal Re		Ti Phone #:
Cie One) Construct Contract Contr	Jan Jaly	25	@illiance	ensolum.com, TMorrissey@ensol	imaii address;
Cool Intact (Initiats) Cool Intact (Initiats) Cool Intact (Initiats) Cool Intact (Initiats) Cool Intact (Initiats) Cool Intact (Initiats) Cool Intact (Initiats) Cool Intact (Initiats)	sunquisited by:		REMARK: Cost C	S: Penter: 1140201001 Incide	ent ID: nAPP2418043567
No No Carragua Fance 450 140		2.0.	n CHECKED BY:	Standard	Bacteria (only) Sample Condition
				15	Yes Yes



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 accredited certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY Project: BIG EDDY UNIT 248H Project Number: 03C1558453 Reported: 17-Sep-24 15:23

CARLSBAD NM, 88220

Project Manager: DAVID MCINNIS

Fax To:

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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	752		16.0	mg/kg	4	4091126	CT	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds b	y 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 G	C 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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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
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	48.0		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 (Pla	D)		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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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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		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 (PIL))		103 %	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			100 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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
			Cardina	al Laborat	ories					
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 (PI	D)		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			96.4 %	48.2	-134	4091016	MS	10-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celeg D. Keine



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
			Cardina	l Laborat	ories					
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	JН	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 (PII	D)		107 %	71.5	-134	4091019	ЈН	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	
Surrogate: 1-Chlorooctadecane			113 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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Celey D. Keene



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
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	192		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 (PII	0)		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*	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	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4091016	MS	10-Sep-24	8015B	

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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

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%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 &	z Analyzed:	11-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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%REC

88.2-128

71.5-134

96.0

101

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Spike

Source

Fax To:

Reported: 17-Sep-24 15:23

RPD

16.3

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

5.76

0.0504

0.150

mg/kg

mg/kg

6.00

0.0500

				-F						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4091019 - Volatiles										
Blank (4091019-BLK1)				Prepared &	z 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 &	ե 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 &	z 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	
n,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	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Surrogate: 1-Chlorooctadecane

Project: BIG EDDY UNIT 248H Project Number: 03C1558453

Project Manager: DAVID MCINNIS

Spike

Level

50.0

Source

Result

%REC

118

49.1-148

Fax To:

Reported: 17-Sep-24 15:23

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

58.9

rmaryte	resur	Dillit	Cinto	Level	resur	70ICEC	Limito	пав	Limit	rtotes
Batch 4091016 - General Prep - Organics										
Blank (4091016-BLK1)				Prepared &	k 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 &	દે 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 &	k 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			

mg/kg

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL

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

Project Manager: David Mcing	HIC BILL TO	
Address: 3122 National Parks Hwy		AWALTSIS REQUEST
city: Carlsbad	State: NM Zip: 88220	
1		
200	Project Owner: XTO City: Carlsbad	
Project Location: 32 62087 103 8314		
Samula Harris Dana Dana	Phone #:	
FOR CARLES CHES : Jesse Dorman		
FOR I'VE RISE ONLY	MATRIX	
Lab I.D Sample I.D	Sample Depth (C)OMP	DE
89	G)RAB OF CONTAIN ROUNDY ASTEWA DIL LUDGE THER BID/BASE F/GOOL HER:	TEX PH HLORI
Soyd I	GR WA SOIL OTH ACIE	TPI
No. Prox X	1	
17	20 / 12	
20 plans	8/6/1	
	3	
25		
EAST NOTE: Limitaly and Dismages, Cardina's laptity siyes, All claims, including those for ex-	y and client's exclusive sensorly for any cliens arraing whether based to content or our section of the section	
make. It no exert shall Cardinal be liable for excitonal or liable in successors arising out of or reliabed to the perfor- ellinquished By:	or consequents dismit the dismented existed crisisis made in writing and received by Continual water 30 days after completed or the applicable extraord dismapse, including without lessation, business elementations, time of use, or loss of profits housened by client, the applicable extraord of senders in the applicable of whether such dates in beside open any of the stope state of the applicable of the applicable of whether such dates in beside open any of the stope state of received or utilization. **Dates**: **Received Date**:	pleative
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Impler - UPS - Bus - Other:	Cool Intact	Rush Cool Infact Observed Temp. 'C
	i varginal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	keene@cardinaffabsnm.com



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



09/17/2024

Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date:

Reported: 09/18/2024 Sampling Type: Soil
Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 14 .5' (H245642-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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 9	2/6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558453 Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

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 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 16 .5' (H245642-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 17 .5' (H245642-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 18 .5' (H245642-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: **BIG EDDY UNIT 248H** Sampling Condition: Cool & Intact Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Surrogate: 1-Chlorooctadecane 105 % 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 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 21 .5' (H245642-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 22 .5' (H245642-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/17/2024 Sampling Date: 09/17/2024

Reported: 09/18/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT 248H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.62087 -103.83145

Sample ID: SS 23 .5' (H245642-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/18/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	BILL TO		ANALYSIS REQUEST
Project Manager: David Mcinnis		P.O. #		
Address: 3122 National Parks Hwy	vy	company: XTO Energy Inc.		
City: Carlsbad	State: NM Zip: 88220	Attn: Amy Ruth		
Phone #: 409-454-3009	Fax#:	Address: 3104 E. Green St.		
Project #: 03C1558453	Project Owner: XTO	city: Carlsbad		
Project Name: Big Eddy Unit 248H	48H	State: NM Zip: 88220		
in:	.83145	Phone #:		
Sampler Name: Jesse Dorman		1		
Lab I.D. Sample I.D.	IRIX	DGE ER: DBASE: COOL BER:	TEX PH HLORIDE	
SAMONO	G W S	A	1	
\$155 B	7	1 1133		
41% NN		1136		
5126		1,61		
0,755		3411		
1899 8		1 4 52		
10 5583	5	1 1 1 1 X	* * *	
PLEASE NOTE: Listelly and Damages. Cardinal's winderly and analyses. All claims including those for nephysnos and any off service. In no week shall Cardinal be liable for incidental or con-	permed permed	of received by Cardinal within 30 da loss of use, or loss of profile incurr	I the applicable factors.	
Relinquished By:	Ditte 7 24 Received By:	All Resu	Verbal Result: Yes W No AddT Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:	Date: Received By:	REMARKS:	KS: Cost Center 114020100	DY CARDON SOLD SET
	Time:			1
	75,13,000	CHECKED BY:	-O.U.	-6IC
Sampler - UPS - Bus - Other:	Commence O. 94 Biog iss	No OT Carrento		ON D



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 03 1 (H250597-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Celeg D. Kreene



Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03C155877 03C1558453

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 03 4 (H250597-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03C155877 03C1558453

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 01 5 (H250597-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

Sample ID: PH 01 6 (H250597-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact 03C155877 03C1558453 Project Number: Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 01 9 (H250597-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

Sample ID: PH 04 4 (H250597-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact Project Number: 03C155877 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 02 1 (H250597-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476 ompany Name: Ensolum, LLC	AX (575) 393-2	476	BILL TO			ANALYSIS REQUEST
roject Manager: Trus Hilliand	lera		P.O. #:			
	uite 400		Company: XTO Energy, Inc.	gy, Inc		
ily: Midland	State: TX	Zip: 79701	Attn: Colton Brown			
hone # 575-937-3906	Fax#:		Address: 3104 E Greene	ene St		
rolect #92/15567 03/15	1311558 Toject Owner:	r: XTO Energy	city: Carlsbad			
0	385	2	State: NM Zip: 88220	220		
200	1	03,83122	Phone #:			
Elia Bo	, ,	K	Fax #:			
		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:		Chloride 4500	
DHO3	4 -	5 <		5 1035 /	5	
10Kd	v z				1	
10Ha h	6	6	V 1/36/25	1235 1	, ,	
Drad S		30		N 80+1	< '	
1 6407 10407		4 9		424	5	
					44.5	
PLEASE NOTE: Liability and Damages. Cardinal's liability and di analysis. All disms including those for negligence and any other to a season of Control of the liability for political or other	ant's exclusive rem cause whatsoever cause whatsoever	edy for any claim assing whether based in co shall be deemed waived unless made in with including without limitation, business internal	other or test, shall be limited to the amount og and represend by Cardinal within 35 days tons, less of use, or loss of profits incurred	unt paid by the client fair the ye after completion of the applicable ed by client, its subsidiaries,		
shed By:	Date:	0	n claim is based upon any of the source season	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: BBeliligensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com	☐ Yes ☐ No nailed. Please pro com, TMorrissey@	Add'I Phone #: ide Email addres ensolum.com, TH
Relinquished By:	Date:	Raceived By:	8	nefp2418043567	043567	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2 E S 1	Sample Condition	ondition CHECKED BY: tact (Initials)	Turnaround Time: Thermometer ID #11 Correction Factor 40	exist of Hish	7 20
		P				



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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C155877 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 05 1' (H250598-01)

Analyte	Result	Reporting Limit							
		reporting Little	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C155877 03C1558453 Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 05 2' (H250598-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	18						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03C155877 03C1558453

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 05 3' (H250598-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

Sample ID: PH 05 4' (H250598-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C155877 03C1558453 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.62085, -103.83132

ma/ka

Sample ID: PH 05 5' (H250598-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						
surrogate: 1-Chiorooctaaecahe	97.9	/0 49.1-14	O						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact 03C155877 03C1558453 Sample Received By: Project Number: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 05 6' (H250598-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact
Project Number: 03C1558453 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.62085, -103.83132

mg/kg

Sample ID: PH 05 7' (H250598-07)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/31/2025 Sampling Date: 01/31/2025

Reported: 02/03/2025 Sampling Type: Soil

Project Name: BEU 2481249H Sampling Condition: Cool & Intact 03C155877 03C1558453 Project Number: Sample Received By: Alyssa Parras

Project Location: XTO 32.62085, -103.83132

Sample ID: PH 05 8' (H250598-08)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/03/2025	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX	FAX (575) 393-2476	476				RECHEST
_			BILL TO		ANALISIS NEG	1000
Project Manager: Trees Hillard	600		P.O.#:			
(O)	uite 400		Company: XIO Energy, Inc	, inc		
City: Midland	State: TX	Zip: 79701	Attn: Colton brown	2		
Phone #: 575-437-3506 Fax#	6 Fax #:		9	S.		
030	5 Froject Owner:	er: XTO Energy				
20.0	1187C	मन्म	State: NM Zip: 88220	20		
Project Location: 32, 6208		132	Phone #:			
Sampler Name: Even Rock	0		Fax #:	NG.		
		MATRIX	PRESERV.	SAMPLING		
Lab I.D. Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH 8015 BTEX 8021 Chloride 4500		
HOOSIG PHOS	-		1 V3/18	1301 / / /		
50x0 2	2	6	V W3/73	2000		
SONGS		3.5	1/3//5	1224		
1	74		V 1/3/125		3	
Sound C	6	5	V 181/2	V V		
50110 6	7	2		1509 V	1	
50403	8	2	1 1/8/12	1 A 61.C		
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CONTROL DE NORTHERNORTE	† Cardi	nal cannot accept verba	Cardinal cannot accept verbal changes. Please email changes to celey.kwene@cardinallabsnm.com	hanges to celey.keene@ta	ardinallabsnm.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

densolum.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

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 459817

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	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.	

Operator:

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

QUESTIONS, Page 2

Action 459817

QUESTIONS (continue
OGRID:

XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	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.	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 s	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.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releating OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com Date: 05/07/2025	

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Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 459817

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459817
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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		
Please answer all the questions that apply or are indicated. This information must be provided to ti	the appropriate district office no later than 90 days after the release discovery date	
· · · · · · · · · · · · · · · · · · ·		
Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
· · · · · · · · · · · · · · · · · · ·	·	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in mill	igrams 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	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence 07/29/2024		
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		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in ac	coordance with the physical realities encountered during remediation. If the responsible party has any need to	

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

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QUESTIONS, Page 4

Action 459817

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459817
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	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

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

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

I hereby agree and sign off to the above statement	Name: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com Date: 05/07/2025
--	--

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

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

QUESTIONS, Page 5

Action 459817

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	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:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459817
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

mpling 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 re	emediation 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

General Information Phone: (505) 629-6116

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QUESTIONS, Page 7

Action 459817

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 459817

CONDITIONS

Operator:	OGRID:
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6401 Holiday Hill Road	Action Number:
Midland, TX 79707	459817
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

(Created By		Condition Date
	scwells	None	5/20/2025