



May 19, 2025

New Mexico Oil Conservation Division

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

**Re: Deferral Request
Big Eddy Unit 34 Hackberry
Incident Number NAPP2408932392
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* following additional delineation activities performed at the Big Eddy Unit 34 Hackberry (Site), in response to the denial of an original *Closure Request*, dated October 11, 2024. In the denial, the New Mexico Oil Conservation Division (NMOCD) expressed concern that delineation of the waste-containing soil was not adequately determined. Based on new sampling results, XTO is requesting deferral of final remediation for Incident Number NAPP2408932392 until the Site is reconstructed, and/or the well pad is abandoned.

All of the details regarding the incident, Site characterization, and remediation already conducted can be referenced in the original *Closure Request* attached in Appendix A. NMOCD denied the *Closure Request* on November 11, 2024, for the following reason:

All edge/sidewall samples must be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.

DELINEATION ACTIVITIES

On February 3, 2025, Ensolum personnel were at the Site to conduct additional delineation activities. Two boreholes (BH04 and BH05) were advanced utilizing a hand auger within the release extent area, which had not been excavated due to the proximity of active production equipment and pipelines, to assess the vertical extent of the remaining waste-containing soil. Delineation soil samples were collected in each borehole at depths ranging from 0.5 feet to 8 feet below ground surface (bgs). Discrete soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the delineation soil samples were logged on lithologic/soil sampling logs, which are included in Appendix B. Photographic documentation was collected during the Site assessment and a Photographic Log is included in Appendix C. All delineation soil sample locations collected for this release are depicted on Figure 1.

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

XTO Energy, Inc
Deferral Request
Big Eddy Unit 34 Hackberry

Protection Agency (EPA) Method 8021B; Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples collected from a depth of 0.5 feet bgs in BH04 and BH05 indicated TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for samples collected at depths ranging from 2 feet to 8 feet bgs indicated all COCs were in compliance with the Closure Criteria, successfully defining the vertical extent of the release. In addition, the terminal samples for both BH04, collected at 7 feet bgs, and BH05, collected at 8 feet bgs, indicated all COC concentrations were in compliance with the strictest Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines preventing excavation of impacted soil. The impacted soil is limited to the area between active production equipment, where remediation would require a major facility deconstruction. The impacted soil remaining in place is delineated vertically by delineation soil samples BH04 and BH05, collected at depths ranging from 2 feet bgs to 4 feet bgs. An estimated 134 cubic yards of impacted soil remains immediately adjacent to or below active production equipment. The requested area of deferral is depicted on Figure 2.

XTO does not believe deferral will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet and the impacted soil remaining in place is limited in areal and vertical extent.

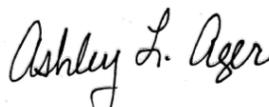
Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2408932392 until final reclamation of the well pad or major facility construction, whichever comes first.

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

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



Ashley Ager, PG, MS
Program Director

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
Bureau of Land Management

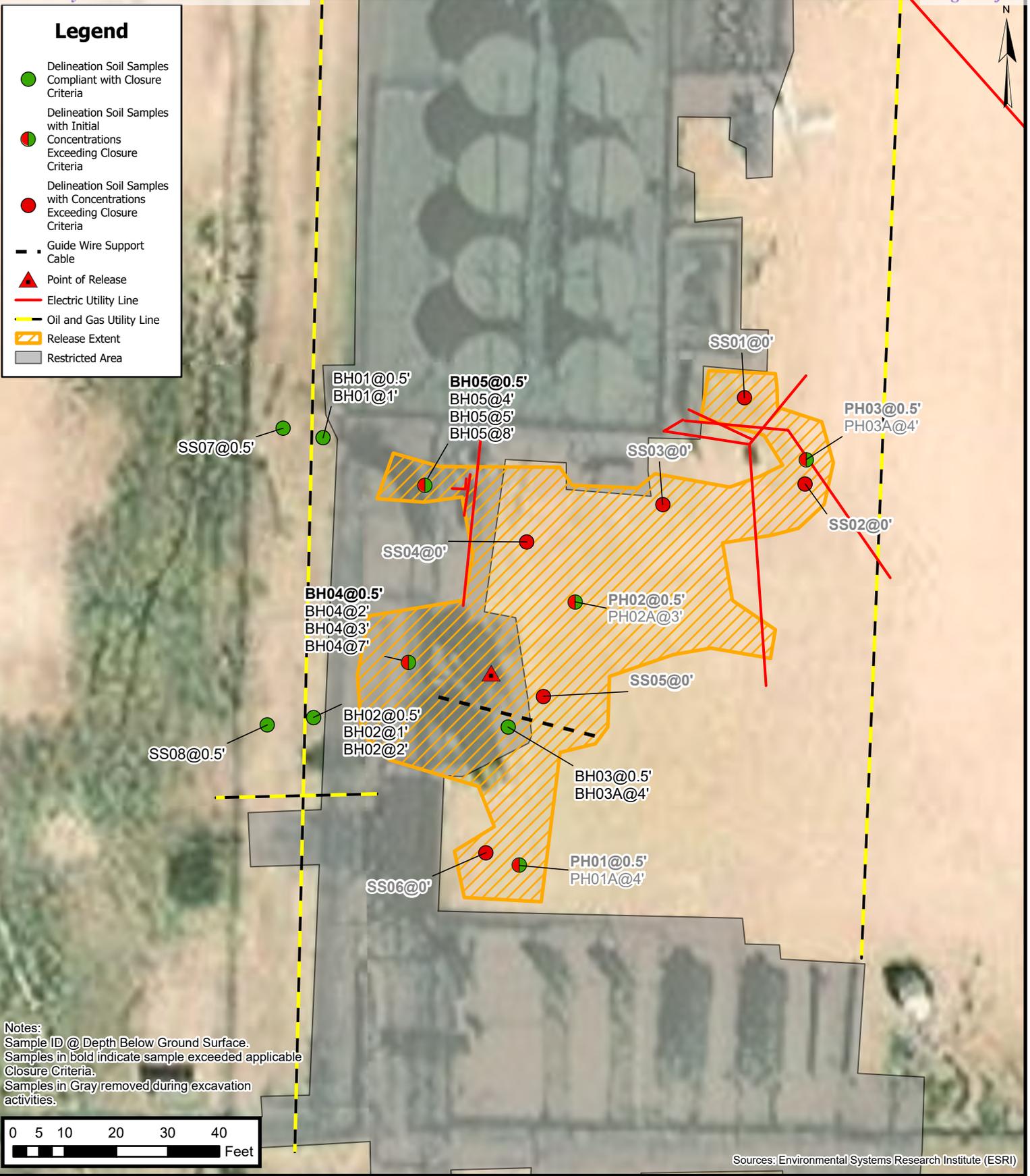
XTO Energy, Inc
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Appendices:

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| Appendix B | Lithologic / Soil Sampling Logs |
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FIGURES

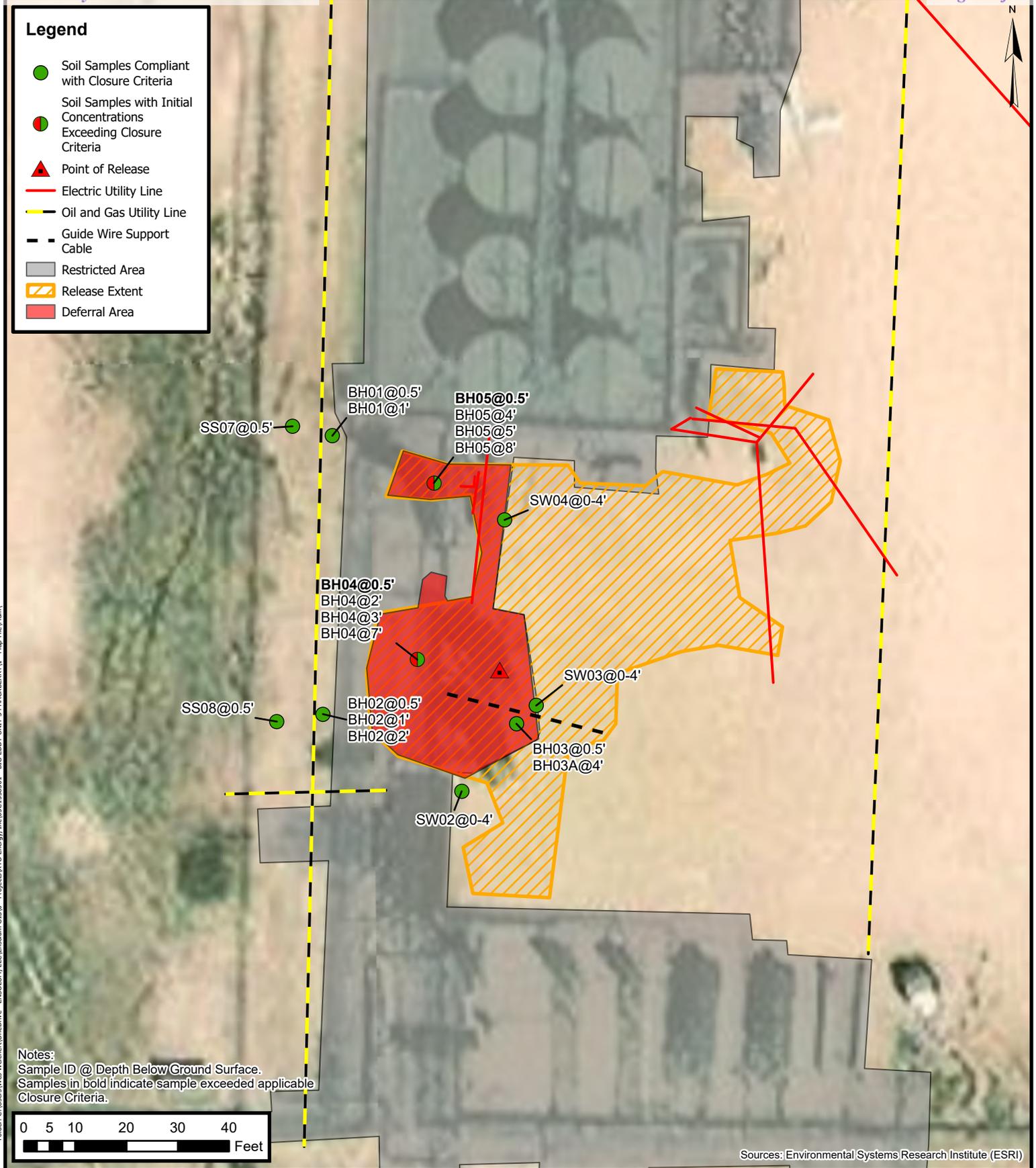


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Delineation Soil Sample Locations
 XTO Energy, Inc
 Big Eddy Unit 34 Hackberry
 Incident Number: NAPP2408932392
 Unit A, Sec 34, T19S, R31E
 Eddy County, New Mexico

FIGURE 1



Requested Area of Deferral

XTO Energy, Inc
 Big Eddy Unit 34 Hackberry
 Incident Number: NAPP2408932392
 Unit A, Sec 34, T19S, R31E
 Eddy County, New Mexico

FIGURE
2





TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 34 Hackberry
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) |
|--------------------------------------------------------|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCDC Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Delineation Soil Samples | | | | | | | | | | |
| SS01 | 05/20/2024 | 0 | 0.805 | 71.2 | 1,620 | 45,900 | 5,490 | 47,520 | 53,010 | 128 |
| SS02 | 05/20/2024 | 0 | 0.3 | 28.8 | 459 | 34,200 | 4,840 | 34,659 | 39,499 | 784 |
| SS03 | 05/20/2024 | 0 | <0.250 | 6.81 | 227 | 39,200 | 5,230 | 39,427 | 44,657 | 19,400 |
| SS04 | 05/20/2024 | 0 | <0.250 | 17.4 | 475 | 34,500 | 4,530 | 34,975 | 39,505 | 17,600 |
| SS05 | 05/20/2024 | 0 | <0.250 | 9.72 | 304 | 35,800 | 4,190 | 36,104 | 40,294 | 11,400 |
| SS06 | 05/20/2024 | 0 | 6.33 | 89.1 | 1,610 | 41,500 | 4,710 | 43,110 | 47,820 | 992 |
| SS07 | 07/23/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 144 |
| SS08 | 07/23/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 176 |
| PH02 | 05/30/2024 | 0.5 | 1.97 | 174 | 2,240 | 6,460 | 874 | 8,700 | 9,574 | 832 |
| PH02A | 05/30/2024 | 3 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 448 |
| PH03 | 05/30/2024 | 0.5 | <0.050 | 4.75 | 103 | 1,710 | 312 | 1,813 | 2,125 | 320 |
| PH03A | 05/30/2024 | 4 | <0.050 | <0.300 | <10.0 | 37.2 | <10.0 | 37.2 | 37.2 | 480 |
| BH01 | 06/27/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 111 | 55.3 | 111 | 166 | 368 |
| BH01 | 06/27/2024 | 1 | <0.050 | <0.300 | <10.0 | 359 | 231 | 359 | 590 | 288 |
| BH02 | 06/27/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 481 | 316 | 481 | 797 | 368 |
| BH02 | 06/27/2024 | 1 | <0.050 | <0.300 | <10.0 | 291 | 198 | 291 | 489 | 256 |
| BH02 | 06/27/2024 | 2 | <0.050 | <0.300 | <10.0 | 264 | 163 | 264 | 427 | 272 |
| BH03 | 07/12/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 379 | 228 | 379 | 607 | 1,170 |
| BH03A | 07/12/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 384 |
| BH04 | 02/03/2025 | 0.5 | <0.050 | 2.58 | 109 | 4,390 | 1,020 | 4,499 | 5,519 | 192 |
| BH04 | 02/03/2025 | 2 | <0.050 | <0.300 | <10.0 | 136 | 52.6 | 136 | 189 | 320 |
| BH04 | 02/03/2025 | 3 | <0.050 | <0.300 | <10.0 | 42.2 | <10.0 | 42.2 | 42.2 | 640 |
| BH04 | 02/03/2025 | 7 | <0.050 | <0.300 | <10.0 | 73.4 | 18.9 | 73.4 | 92.3 | 400 |
| BH05 | 02/03/2025 | 0.5 | <0.050 | <0.300 | <10.0 | 3,790 | 1,190 | 3,790 | 4,980 | 48.0 |
| BH05 | 02/03/2025 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| BH05 | 02/03/2025 | 5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 64.0 |
| BH05 | 02/03/2025 | 8 | <0.050 | <0.300 | <10.0 | 19.4 | <10.0 | 19.4 | 19.4 | 16.0 |



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 34 Hackberry
XTO Energy, Inc
Eddy County, New Mexico**

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|-------------------------------------------------------|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Excavation Soil Samples | | | | | | | | | | |
| SW02 | 06/03/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 362 | 135 | 362 | 497 | 496 |
| SW03 | 06/03/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 18.8 | <10.0 | 18.8 | 18.8 | 688 |
| SW04 | 06/03/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 336 |

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

October 11, 2024 *Closure Request*



October 11, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
Big Eddy Unit 34 Hackberry
Incident Number NAPP2408932392
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 assessment, excavation, and soil sampling activities at the Big Eddy Unit 34 Hackberry (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting no further remediation for Incident Number NAPP2408932392.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 34, Township 19 South, Range 31 East, in Eddy County, New Mexico (32.62184°, -103.85159°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On March 15, 2024, a valve failed causing the release of approximately 6 barrels (bbls) of crude oil onto the surface of the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 3 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and Initial C-141 Application (C-141) on March 29, 2024. The release was assigned Incident Number NAPP2408932392 (Subject Release).

SITE HISTORY

On August 16, 2024, XTO submitted an extension request via email to the NMOCD. The extension request stated:

XTO is requesting an extension for a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the attached locations/incident numbers listed in this message. We understand that the releases all occurred between February and March of this year and attendant documentation is overdue. Kindly be aware that these occurred during a high turnover period of personnel in our department, transitioning staff, and a large company-wide data migration that collectively disturbed our incident tracking efforts for remediation. In our efforts to correct the

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Big Eddy Unit 34 Hackberry



issue, XTO is proactively assigning each of these incidents to be successfully addressed by contractors for closure in accordance with 19.15.29.12 NMAC.

On August 19, 2024, the NMOCD denied the extension request for the following reason:

An extension request needs to be requested before the Remediation Closure Report Due Date Deadline. All of these incidents are at least 60 days out of compliance. The extension requests are denied. Please include this e-mail correspondence in the remediation and/or closure reports.

On August 29, 2024, Ensolum personnel visited the Site and reviewed initial release photographs, internal reports, and the C-141. It was discovered the Subject Release had been previously remediated. On April 26, 2024, another release occurred overlapping the Subject Release and was assigned Incident Number NAPP2412351243 (Approved Release). The Approved Release was remediated from May 20, 2024, through July 23, 2024. A closure report was submitted on July 25, 2024, to the NMOCD and was approved on July 30, 2024. Below are the details of the remediation activities and laboratory analytical results as they relate to the Approved Release, but only encompassing the Subject Release and as such, are utilized for describing remedial actions addressing the March 2024 release, Incident Number NAPP2408932392.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On April 26, 2021, a soil boring permitted by New Mexico Office of the State Engineer (OSE) as CP-1864 was advanced approximately 0.42 miles west of the Site. The boring was drilled to a total depth of 110 feet bgs. A field geologist logged and described soils continuously. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. The Well Record and Log for CP-1864 is included in Appendix A. All wells used to evaluate depth to groundwater are presented on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 13,288 feet north 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 results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

XTO Energy, Inc
Closure Request
Big Eddy Unit 34 Hackberry



- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On May 20, 2024, Site assessment activities were conducted by Ensolum to evaluate the release extent based on information provided on the Form-C141 and visual observations. Six delineation soil samples (SS01 through SS06) were collected inside the release extent. 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 and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected during the Site assessment and a Photographic Log is included in Appendix B.

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

Laboratory analytical results for delineation soil samples SS01 through SS06 indicated TPH-GRO/TPH-DRO and total TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for soil samples SS01 and SS06 exhibited BTEX concentrations exceeding the Closure Criteria. All remaining COCs for soil samples SS01 through SS06 indicated concentrations below Closure Criteria. Based on visible staining in the release area and laboratory analytical results, additional delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between May 30 and July 23, 2024, Ensolum personnel were at the Site to oversee delineation and excavation activities. Three potholes (PH01 through PH03) were advanced utilizing heavy equipment, and three boreholes (BH01 through BH03) were advanced utilizing a hand auger within and around the release extent area to assess the vertical extent of the release. Delineation soil samples were collected in each pothole and borehole at depths ranging from 0.5 feet to 4 feet bgs. The delineation soil samples were field screened for VOCs and chloride as described above. The delineation soil samples were collected and handled as described above and were transported under strict chain-of-custody procedures to Cardinal for analysis of the same COCs listed above. Field screening results and observations for all potholes and boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

Impacted soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results. Excavation activities were performed utilizing a backhoe, track hoe, hydrovacuum truck, and transport vehicles. The excavation occurred on the well pad near active production equipment and pipelines. Due to the active production equipment and a guide wire cable located within the release extent area, running from the top of the heater treater to the ground surface, the excavation was divided into two separate extents, which made portions of the release extent inaccessible by heavy equipment.

XTO Energy, Inc
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Big Eddy Unit 34 Hackberry



To direct excavation activities, Ensolum personnel screened soil for VOCs and chlorides. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS17 were collected from the floor of the excavation at a depth of 4 feet bgs. Confirmation soil samples SW01 through SW08 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above and submitted to Cardinal. The excavation extent and confirmation soil sample locations are presented on Figure 3.

In order to define the western extent of the release to reclamation requirement standards, two additional delineation soil samples (SS07 and SS08) were collected on July 23, 2024. Soil samples SS07 and SS08 were collected outside the release extent, beyond borehole BH01 and BH02 locations, at a depth of 0.5 feet bgs.

The final excavation extent, between both excavated areas, measured approximately 3,000 square feet. A total of approximately 460 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples collected indicated all COC concentrations were compliant with the Closure Criteria. Additionally, results from analysis of confirmation sidewall soil samples SW01, SW02, SW04 through SW06, and SW08 indicated all COC concentrations were compliant with the reclamation requirement and confirms the southern, eastern, and northern extent of the release.

Laboratory analytical results for delineation soil samples SS01 through SS06 and PH01 through PH03 collected at 0.5 feet bgs indicated COC concentrations exceeding Closure Criteria; however, soil represented by these soil samples was removed during excavation activities. Laboratory analytical results for delineation soil samples SS07 and SS08 indicated COC concentrations were in compliance with Closure Criteria and reclamation requirement, and thus define the western extent of the release area. Laboratory analytical results from terminal depths of potholes PH01 through PH03 and borehole BH03 are compliant with the strictest Table I Closure Criteria and provide vertical definition of the release. Laboratory analytical results for samples collected from boreholes BH01, BH02, and BH03 indicated the presence of elevated TPH (ranging from 166 mg/kg to 797 mg/kg). Additionally, the sample collected from 0.5 feet bgs in BH03 contained elevated chloride concentrations (1,170 mg/kg). The areas represented by those soil samples was inaccessible to heavy equipment, and waste-containing soil remains in place there. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Based on initial release photographs, internal reports, and the C-141 for Incident Number nAPP2408932392, the Approved Release fully encompasses the Subject Release. Based on the soil sample analytical results, no further remediation is required. Based on laboratory analytical results from boreholes BH01 through BH03, waste-containing soil remains under active production equipment and pipelines. An estimated 438 cubic yards of waste-containing soil is present in an area covering

XTO Energy, Inc
Closure Request
Big Eddy Unit 34 Hackberry



approximately 3,950 square feet. The waste-containing soil will be removed at the time of final abandonment of the well pad or major facility deconstruction, whichever comes first. XTO backfilled the excavation with material purchased locally, and the area was recontoured to match pre-existing site conditions.

Sampling notifications were not submitted to the NMOCD portal for Incident Number NAPP2408932392 due to the release being remediated simultaneously with the Approved Release. XTO respectfully requests a variance to the 48-hour sampling notification per 19.15.29.12D (1a) NMAC. Incident Number NAPP2408932392 occurred prior to the Approved Release, the excavation extent fully encompasses Incident Number NAPP2408932392. Sampling notifications were submitted documenting the sampling events for the remedial activities to the NMOCD for the Approved Release. XTO believes the completed remedial actions are protective of human health, the environment, and groundwater.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2408932392.

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

Daniel R. Moir, PG (Licensed in WY & TX)
Senior Managing Geologist

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic / Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



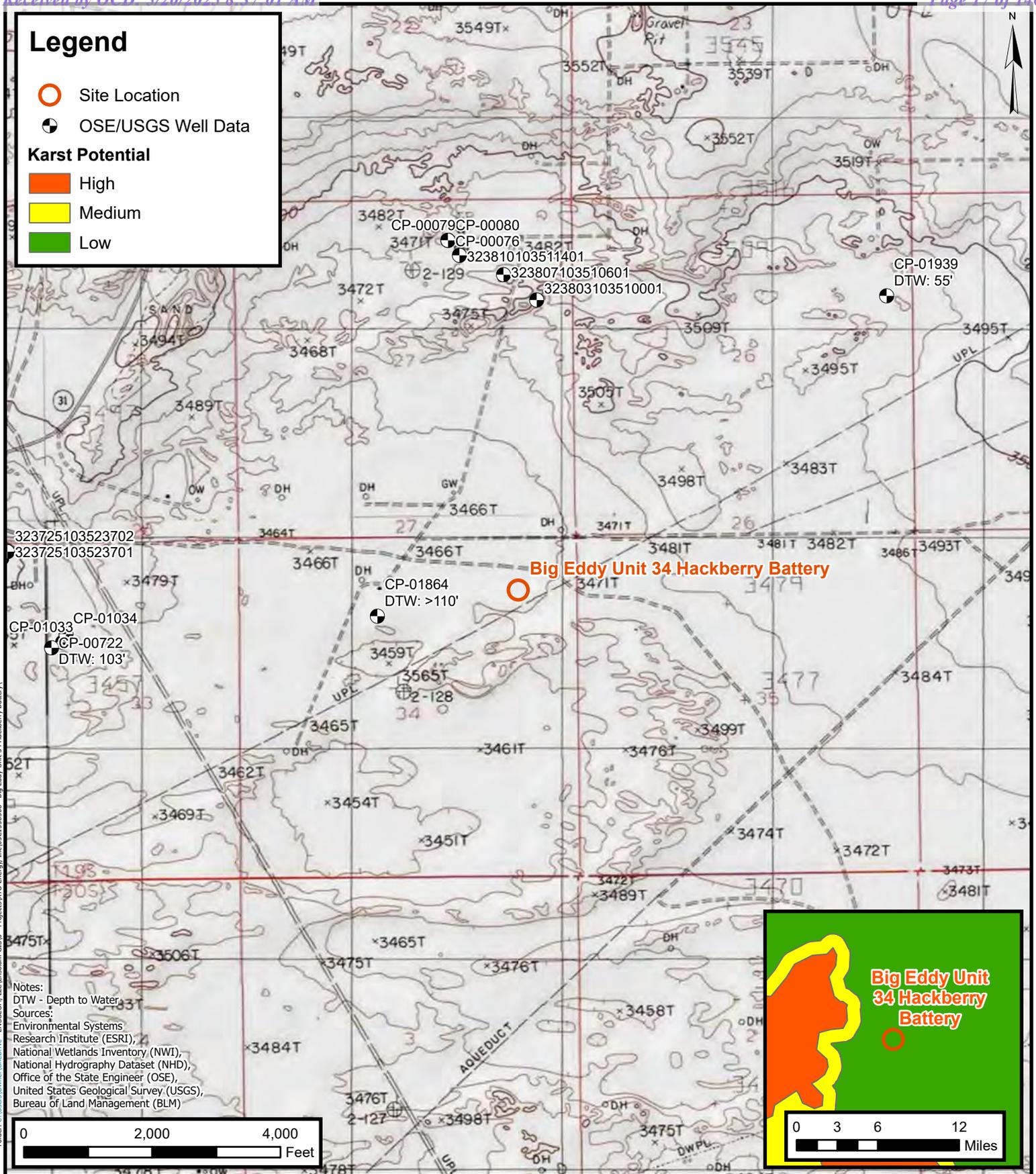
FIGURES

Legend

- Site Location
- OSE/USGS Well Data

Karst Potential

- High
- Medium
- Low



Notes:
DTW - Depth to Water
Sources:
Environmental Systems
Research Institute (ESRI),
National Wetlands Inventory (NWI),
National Hydrography Dataset (NHD),
Office of the State Engineer (OSE),
United States Geological Survey (USGS),
Bureau of Land Management (BLM)

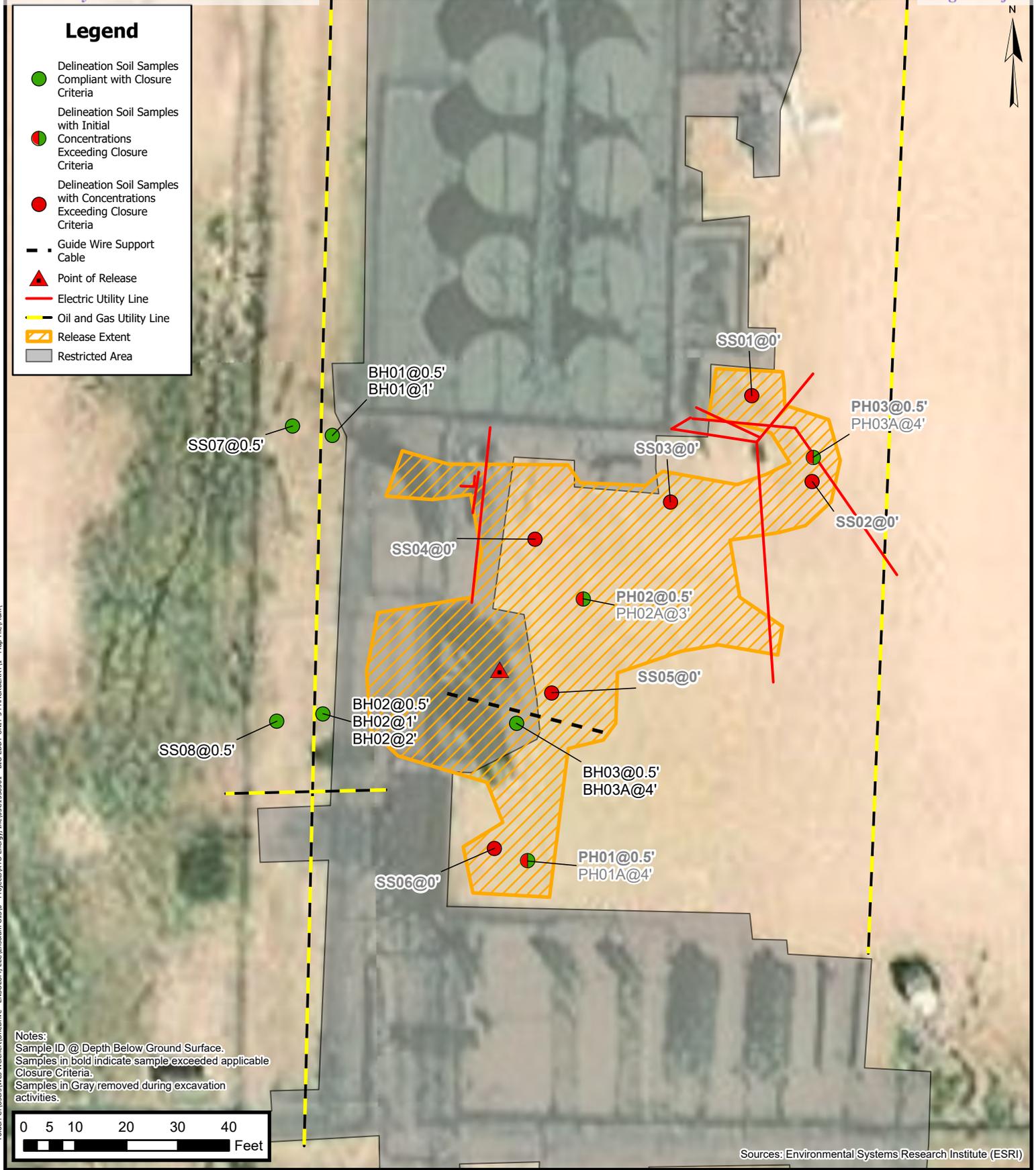
Site Receptor Map

XTO Energy, Inc
Big Eddy Unit 34 Hackberry
Incident Number: NAPP2412351243
Unit A, Sec 34, T19S, R31E
Eddy County, New Mexico

FIGURE

1





Folder: C:\Users\Wes.Weichert\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\XTO Energy, Inc\03C1159361 - BIG EDDY UNIT 34 HACKBERRY1 - Map File(Main)

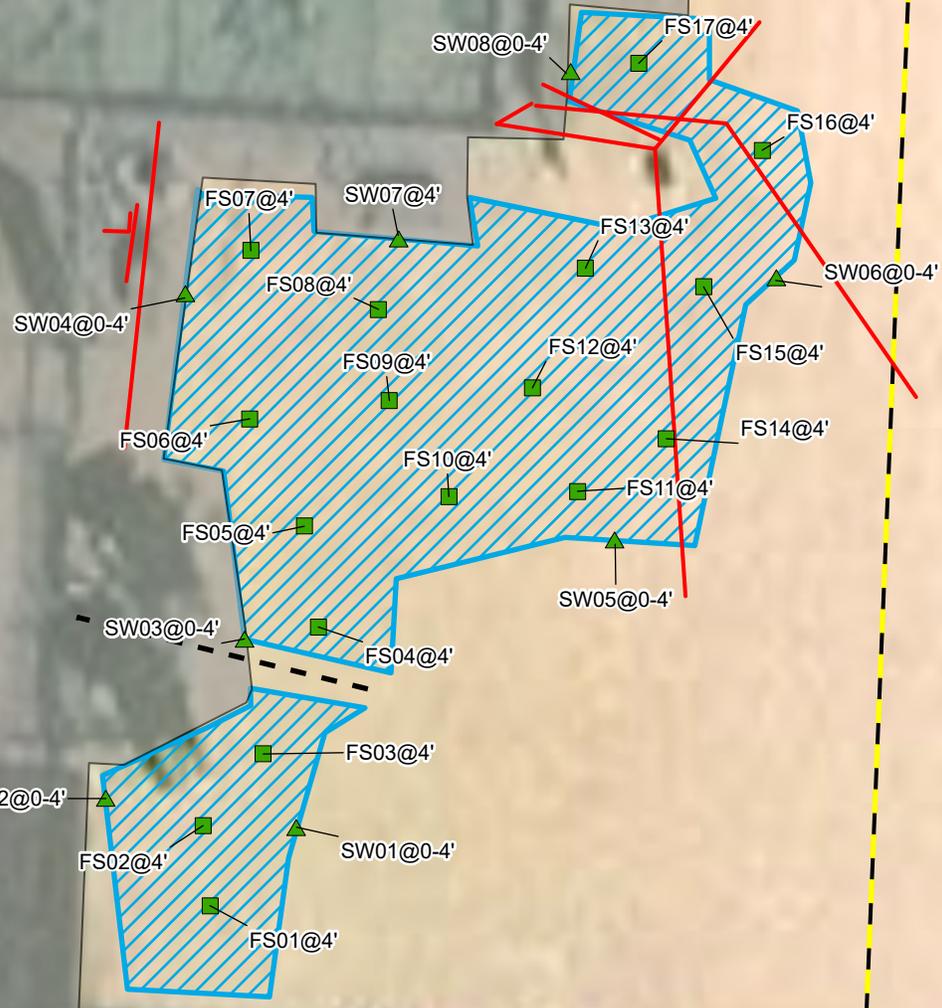


Delineation Soil Sample Locations
 XTO Energy, Inc
 Big Eddy Unit 34 Hackberry
 Incident Number: NAPP2408932392
 Unit A, Sec 34, T19S, R31E
 Eddy County, New Mexico

FIGURE 2

Legend

- Excavation Floor Soil Samples Compliant with Closure Criteria
- ▲ Excavation Sidewall Soil Samples Compliant with Closure Criteria
- Excavation Extent
- Restricted Area
- Electric Utility Line
- Oil and Gas Utility Line
- Guide Wire Support Cable



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

XTO Energy, Inc
 Big Eddy Unit 34 Hackberry
 Incident Number: NAPP2408932392
 Unit A, Sec 34, T19S, R31E
 Eddy County, New Mexico

FIGURE
3



TABLES

**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 34 Hackberry
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) |
|--------------------------------------------------------|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCDC Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Delineation Soil Samples | | | | | | | | | | |
| SS01 | 05/20/2024 | 0 | 0.805 | 71.2 | 1,620 | 45,900 | 5,490 | 47,520 | 53,010 | 128 |
| SS02 | 05/20/2024 | 0 | 0.3 | 28.8 | 459 | 34,200 | 4,840 | 34,659 | 39,499 | 784 |
| SS03 | 05/20/2024 | 0 | <0.250 | 6.81 | 227 | 39,200 | 5,230 | 39,427 | 44,657 | 19,400 |
| SS04 | 05/20/2024 | 0 | <0.250 | 17.4 | 475 | 34,500 | 4,530 | 34,975 | 39,505 | 17,600 |
| SS05 | 05/20/2024 | 0 | <0.250 | 9.72 | 304 | 35,800 | 4,190 | 36,104 | 40,294 | 11,400 |
| SS06 | 05/20/2024 | 0 | 6.33 | 89.1 | 1,610 | 41,500 | 4,710 | 43,110 | 47,820 | 992 |
| SS07 | 07/23/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 144 |
| SS08 | 07/23/2024 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 176 |
| PH01 | 05/30/2024 | 0.5 | <0.100 | 41.6 | 705 | 4,520 | 694 | 5,225 | 5,919 | 176 |
| PH01A | 05/30/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80 |
| PH02 | 05/30/2024 | 0.5 | 1.97 | 174 | 2,240 | 6,460 | 874 | 8,700 | 9,574 | 832 |
| PH02A | 05/30/2024 | 3 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 448 |
| PH03 | 05/30/2024 | 0.5 | <0.050 | 4.75 | 103 | 1,710 | 312 | 1,813 | 2,125 | 320 |
| PH03A | 05/30/2024 | 4 | <0.050 | <0.300 | <10.0 | 37.2 | <10.0 | 37.2 | 37.2 | 480 |
| BH01 | 06/27/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 111 | 55.3 | 111 | 166 | 368 |
| BH01 | 06/27/2024 | 1 | <0.050 | <0.300 | <10.0 | 359 | 231 | 359 | 590 | 288 |
| BH02 | 06/27/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 481 | 316 | 481 | 797 | 368 |
| BH02 | 06/27/2024 | 1 | <0.050 | <0.300 | <10.0 | 291 | 198 | 291 | 489 | 256 |
| BH02 | 06/27/2024 | 2 | <0.050 | <0.300 | <10.0 | 264 | 163 | 264 | 427 | 272 |
| BH03 | 07/12/2024 | 0.5 | <0.050 | <0.300 | <10.0 | 379 | 228 | 379 | 607 | 1,170 |
| BH03A | 07/12/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 384 |
| Confirmation Soil Samples | | | | | | | | | | |
| FS01 | 06/03/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 192 |
| FS02 | 06/03/2024 | 4 | <0.050 | <0.300 | <10.0 | 39.9 | <10.0 | 39.9 | 39.9 | 256 |
| FS03 | 06/03/2024 | 4 | <0.050 | <0.300 | <10.0 | 28.4 | <10.0 | 28.4 | 28.4 | 432 |
| FS04 | 06/03/2024 | 4 | <0.050 | <0.300 | <10.0 | 122 | 35.4 | 122 | 157 | 2,480 |
| FS05 | 06/03/2024 | 4 | <0.050 | <0.300 | <10.0 | 12.9 | <10.0 | 12.9 | 12.9 | 1,120 |
| FS06 | 06/03/2024 | 4 | <0.050 | <0.300 | <10.0 | 38.4 | 15.1 | 38.4 | 53.5 | 624 |
| FS07 | 06/03/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 576 |
| FS08 | 06/03/2024 | 4 | <0.050 | <0.300 | <10.0 | 13.5 | <10.0 | 13.5 | 13.5 | 144 |
| FS09 | 06/04/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 560 |

**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Big Eddy Unit 34 Hackberry
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) |
|--------------------------------------------------------|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCDC Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| FS10 | 06/04/2024 | 4 | <0.050 | <0.300 | <10.0 | 19.1 | <10.0 | 19.1 | 19.1 | 432 |
| FS11 | 06/04/2024 | 4 | <0.050 | <0.300 | <10.0 | 47.3 | <10.0 | 47.3 | 47.3 | 592 |
| FS12 | 06/04/2024 | 4 | <0.050 | <0.300 | <10.0 | 38 | <10.0 | 38 | 38 | 288 |
| FS13 | 06/04/2024 | 4 | <0.050 | <0.300 | <10.0 | 14.1 | <10.0 | 14.1 | 14.1 | 736 |
| FS14 | 06/04/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 160 |
| FS15 | 06/04/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 144 |
| FS16 | 06/04/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 208 |
| FS17 | 07/12/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 352 |
| SW01 | 06/03/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 62.2 | 15.2 | 62.2 | 77.4 | 224 |
| SW02 | 06/03/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 362 | 135 | 362 | 497 | 496 |
| SW03 | 06/03/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 18.8 | <10.0 | 18.8 | 18.8 | 688 |
| SW04 | 06/03/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 336 |
| SW05 | 06/04/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 224 |
| SW06 | 06/04/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 16.7 | <10.0 | 16.7 | 16.7 | 560 |
| SW07 | 06/04/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 928 |
| SW08 | 07/12/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 160 |

Notes:

- bgs: below ground surface
- mg/kg: milligrams per kilogram
- NMOCDC: New Mexico Oil Conservation Division
- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
- Concentrations in **bold** exceed the NMOCDC Table I Closure Criteria or reclamation requirement where applicable.
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- ORO: Oil Range Organics
- TPH: Total Petroleum Hydrocarbon
- NMAC: New Mexico Administrative Code
- Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------|--------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 (BH-01) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-1864 CP 1864 | | | |
| | WELL OWNER NAME(S) XTO Energy (Kyle Littrell) | | | | PHONE (OPTIONAL) | | | |
| | WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr. | | | | CITY Midland | STATE TX | ZIP 79707 | |
| | WELL LOCATION (FROM GPS) | LATITUDE | DEGREES 32° | MINUTES 37' | SECONDS 14.58" N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | | LONGITUDE | -103° | 51' | 31.48" W | * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE Sec. 15 T24S R31E | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 02/26/2021 | DRILLING ENDED 02/26/2021 | DEPTH OF COMPLETED WELL (FT) temporary well material | | BORE HOLE DEPTH (FT) 110 | DEPTH WATER FIRST ENCOUNTERED (FT) n/a | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 110 | ±6.5 | Boring- HSA | -- | -- | -- | -- |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
| | FROM | TO | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

USE DIT NR 11/2021 PM 177

| | | | | | | | |
|----------------------|---------|---------|------|--------------------------------------------|-----------------|----|-------------|
| FOR OSE INTERNAL USE | | | | WR-20 WELL RECORD & LOG (Version 06/30/17) | | | |
| FILE NO. | CP-1864 | POD NO. | 1 | TRN NO. | 686596 | | |
| LOCATION | 214 | T19S | R31E | Sec 34 | WELL TAG ID NO. | NA | PAGE 1 OF 2 |

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------|
| | FROM | TO | | | | |
| | 0 | 1.5 | 1.5 | Caliche w/ sand, no odor, no stain, tan, off white, dry | Y ✓ N | |
| | 1.5 | 13 | 11.5 | Sand, no odor, no stain, m-f, well sorted, gray, trace silt, some caliche, dry | Y ✓ N | |
| | 13 | 24 | 11 | Sandstone, m-f, low consolidation, gray, little coarse gravel, dry | Y ✓ N | |
| | 24 | 34 | 10 | Sand w/ caliche, gray, tan, moist, m-f, well sorted | Y ✓ N | |
| | 34 | 41 | 7 | Caliche /Sand, m-f, well sorted, tan, offwhite, mod. consolidation, moist | Y ✓ N | |
| | 41 | 50 | 9 | Clayey sand, gray, fine grain, well sorted, med. plasticity, cohesive, moist, w/ cal | Y ✓ N | |
| | 50 | 69 | 19 | Caliche w/ sandy clay, m-f, no cohesion, no plasticity, dry | Y ✓ N | |
| | 69 | 79 | 10 | Sandstone, tan, m-f, , high consolidation, dry | Y ✓ N | |
| | 79 | 92 | 13 | Clayey sand,medium plasticity, cohesive, fine grained sand, brown, moist | Y ✓ N | |
| | 92 | 110 | 18 | Claystone, brown, high plasticity, cohesive, no odor, no stain, moist | Y ✓ N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
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| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |
| <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |

| | | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
| | MISCELLANEOUS INFORMATION: | Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist. |
| | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: | Shane Eldridge OSE DJJ MAR 11 2021 PM4:27 |

| | | |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: | |
| |  Jackie D. Atkins | 03/09/2021 |
| | SIGNATURE OF DRILLER / PRINT SIGNEE NAME | DATE |

| | | | |
|-------------------------------|--------------------|----------------------------------------------|--|
| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Version 06/30/2017) | |
| FILE NO. CP-1864 | POD NO. 1 | TRN NO. 686596 | |
| LOCATION 214 T19S R31E Sec 34 | WELL TAG ID NO. NA | PAGE 2 OF 2 | |

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 686596
File Nbr: CP 01864
Well File Nbr: CP 01864 POD1

Apr. 07, 2021

KYLE ITTRELL
XTO ENERGY INC
6401 HOLIDAY HILL ROAD
MIDLAND, TX 79707

Greetings:

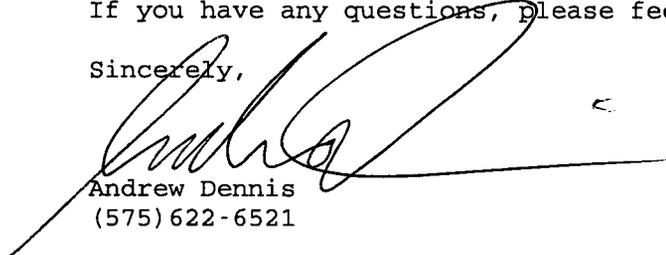
The above numbered permit was issued in your name on 01/29/2021.

The Well Record was received in this office on 03/11/2021, stating that it had been completed on 02/26/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/28/2022.

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

Sincerely,


Andrew Dennis
(575) 622-6521

drywell



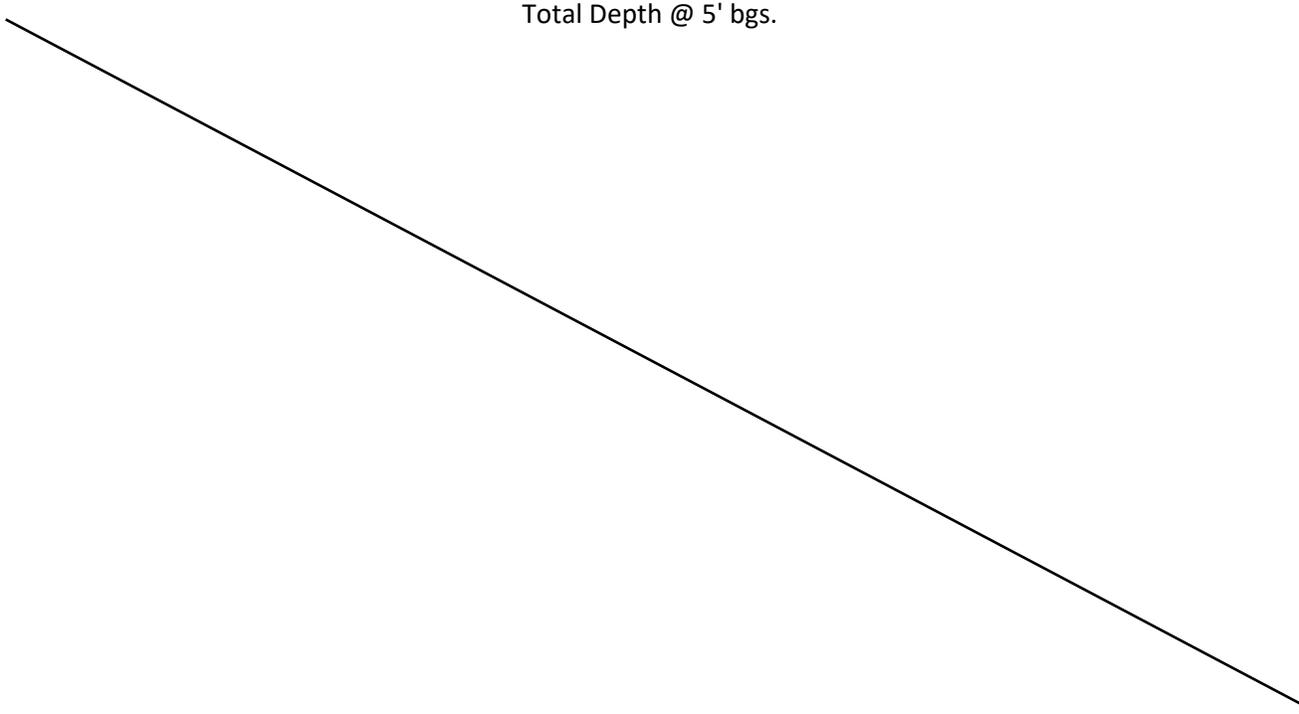
APPENDIX B

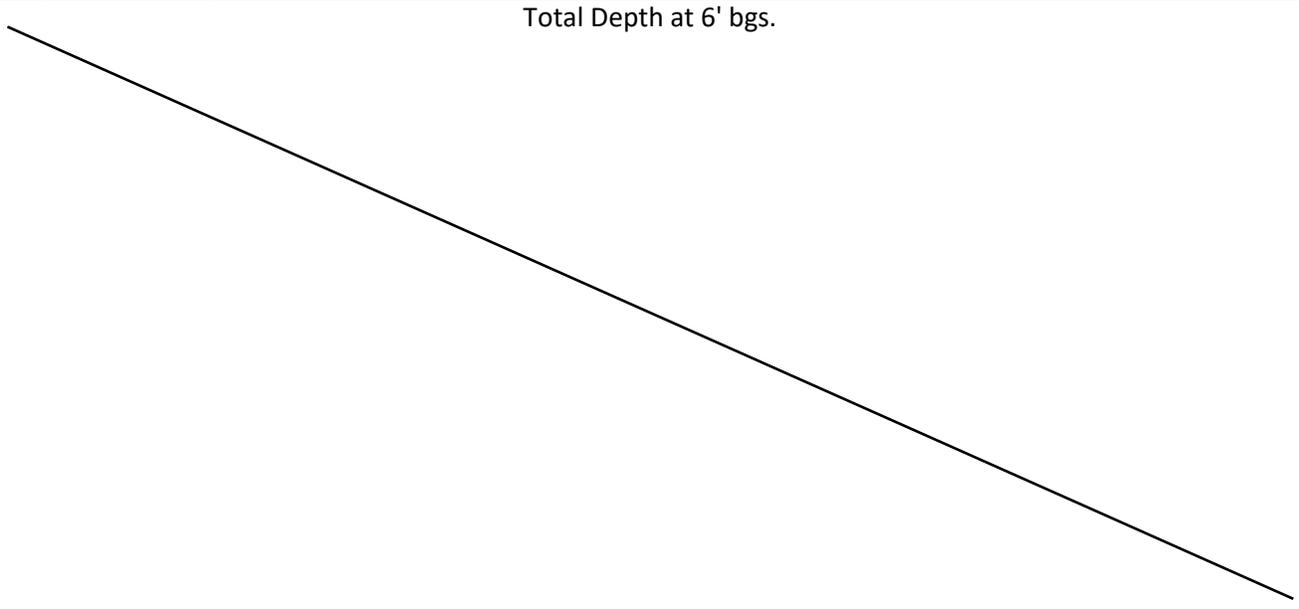
Photographic Log



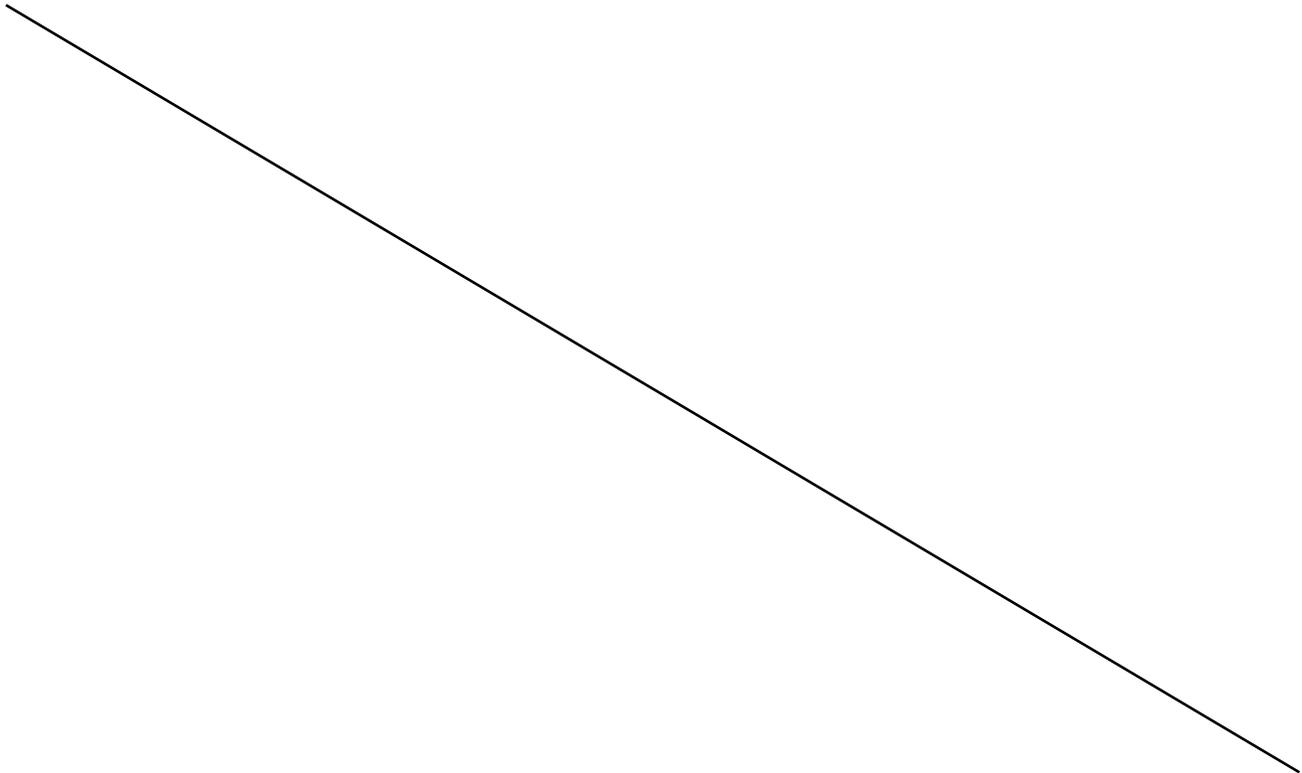
APPENDIX C

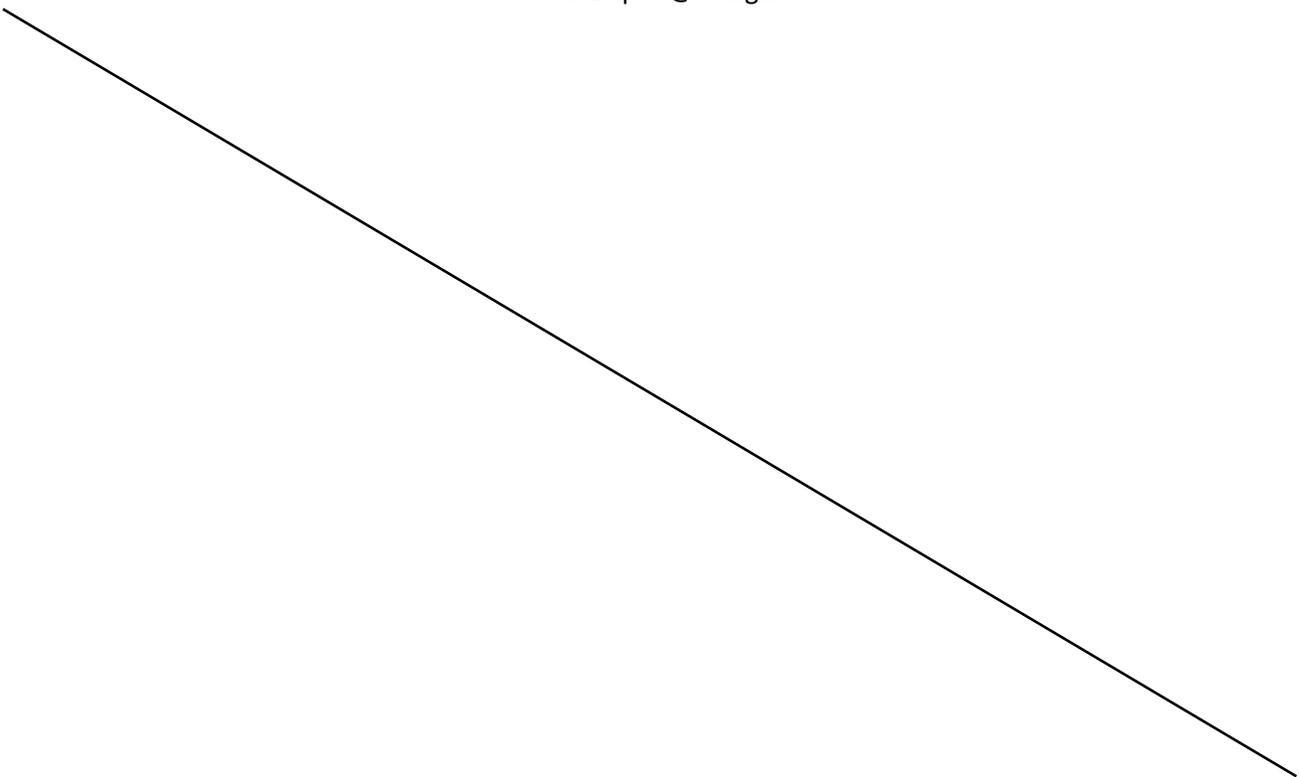
Lithologic Soil Sampling Logs

|  | | Sample Name: PH01 | | Date: 5/30/2024 | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------|----------------------|-----------------|-----------------------|--------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| | | Site Name: Big Eddy Unit 34 Hackberry | | | | | | | |
| | | Incident Number: nAPP2412351243 | | | | | | | |
| | | Job Number: 03C1558361 | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | | |
| Coordinates: 32.621758, -103.851603 | | | Logged By: M. O'Dell | | Method: Backhoe | | | | |
| | | | Hole Diameter: ~3 | | Total Depth: 5' | | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements are calculated with a +40% correction factor. | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | |
| D | 274.4 | 584 | Y | PH01 | 0.5 | 0 | CCHE/SP | Caliche/Sand. Tan - brown, very fine to fine grained, poorly graded, dry, stained, strong odor. | |
| D | 274 | 92.5 | Y | | 1 | 1 | | | |
| D | 235 | 89.5 | Y | | 2 | 2 | SP | | Sand. Tan - brown, very fine to fine grained, poorly graded, strong odor, staining. |
| D | <162 | 2.6 | N | | 3 | 3 | | | |
| M | <162 | 0.0 | N | PH01A | 4 | 4 | | Moist, no odor. | |
| M | <162 | 0.0 | N | | 5 | 5 | SP | Sand. Tan, very fine to fine grained, poorly graded, dry, no odor. | |
| Total Depth @ 5' bgs. | | | | | |  | | | |

|  | | | | | | | Sample Name: PH02 | | Date: 5/30/2024 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|---------------------------------------|-------------------------------------------------------------------------------------------|-----------------|--|
| | | | | | | | Site Name: Big Eddy Unit 34 Hackberry | | | |
| | | | | | | | Incident Number: nAPP2412351243 | | | |
| | | | | | | | Job Number: 03C1558361 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | Logged By: M. O'Dell | | Method: Backhoe | |
| Coordinates: 32.621898, -103.851566 | | | | | | | Hole Diameter: ~3 | | Total Depth: 6' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements are calculated with a +40% correction factor. | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | |
| | | | | | | 0 | | | | |
| W | 767 | 1,635 | Y | PH02 | 0.5 | | CCHE/SP | Caliche/Sand. Brown, very fine to fine grained, poorly graded, wet, stained, strong odor. | | |
| W | 840 | 1,471 | Y | | 1 | 1 | | | | |
| D | 633 | 488 | Y | PH02A | 2 | 2 | SP | Sand. Tan - brown, very fine to fine grained, poorly graded, strong odor, staining, dry. | | |
| D | 358 | 0.0 | N | | 3 | 3 | | | | |
| D | 1,182 | 23.5 | N | | 4 | 4 | SP | Sand. Light brown, poorly graded, very fine to fine, no staining, odor, dry. | | |
| D | 894 | 54.8 | N | | 5 | 5 | | | | |
| D | 235 | 0.0 | N | | | 6 | | Tan, no staining, slight odor. | | |
| Total Depth at 6' bgs. | | | | | | | | | | |
|  | | | | | | | | | | |

|  | | Sample Name: BH01 | | Date: 6/27/2024 | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------|----------|-----------------------|-----------------------|--------------------|------------------|-----------------------------------------------------------------------------------------------|
| | | Site Name: Big Eddy Unit 34 Hackberry | | | | | | |
| | | Incident Number: nAPP2412351243 | | | | | | |
| | | Job Number: 03C1558361 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | Logged By: Omar Hamdy | | Method: Hand Auger | | |
| Coordinates: 32.621987, -103.851724 | | | | Hole Diameter: ~4" | | Total Depth: 1' | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements are calculated with a +40% correction factor. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| | | | | | | 0 | | |
| D | 403 | 0.0 | N | BH01 | 0.5 | | CCHE/SP | Caliche/Sand. Brown, very fine to fine grained, poorly graded, dry, no staining, strong odor. |
| D | 235 | 0.0 | N | BH01A | 1 | | | |
| Total Depth @ 1' bgs. | | | | | | | | |

|  | | | | | | | Sample Name: BH02 | | Date: 6/27/2024 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|---------------------------------------|-----------------------------------------------------------------------------------------------|--------------------|--|
| | | | | | | | Site Name: Big Eddy Unit 34 Hackberry | | | |
| | | | | | | | Incident Number: nAPP2412351243 | | | |
| | | | | | | | Job Number: 03C1558361 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | Logged By: Omar Hamdy | | Method: Hand Auger | |
| Coordinates: 32.621838, -103.851732 | | | | | | | Hole Diameter: ~4" | | Total Depth: 2' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements are calculated with a +40% correction factor. | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | |
| D | 403 | 0.0 | N | BH02 | 0.5 | 0 | CCHE/SP | Caliche/Sand. Brown, very fine to fine grained, poorly graded, dry, no staining, strong odor. | | |
| D | 168 | 0.0 | N | | 1 | 1 | | | | |
| M | 235 | 0.0 | N | BH02A | 2 | 2 | SP | Sand. Reddish brown, very fine to fine grained, poorly graded, odor, no staining, moist. | | |
| Total Depth at 2' bgs | | | | | | | | | | |
|  | | | | | | | | | | |

|  | | | | | | | Sample Name: BH03 | | Date: 7/12/2024 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|---------------------------------------|-----------------------------------------------------------------------------------------------|--------------------|--|
| | | | | | | | Site Name: Big Eddy Unit 34 Hackberry | | | |
| | | | | | | | Incident Number: nAPP2412351243 | | | |
| | | | | | | | Job Number: 03C1558361 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | Logged By: M. O'Dell | | Method: Hand Auger | |
| Coordinates: 32.621831, -103.851598 | | | | | | | Hole Diameter: ~4" | | Total Depth: 4' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements are calculated with a +40% correction factor. | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | |
| | | | | | | 0 | | | | |
| D | 2,358 | 0.0 | N | BH03 | 0.5 | | CCHE/SP | Caliche/Sand. Brown, very fine to fine grained, poorly graded, dry, no staining, strong odor. | | |
| D | 2,201 | 0.0 | N | | 1 | | | | | |
| M | 571 | 0.0 | N | | 2 | | SP | Sand. Reddish brown, very fine to fine grained, poorly graded, odor, no staining, moist. | | |
| M | 633 | 0.0 | N | | 3 | | | No odor | | |
| M | 459 | 0.0 | N | BH03A | 4 | | | | | |
| Total Depth @ 4' bgs. | | | | | | | | | | |
|  | | | | | | | | | | |



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 28, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 34 HACKBERRY

Enclosed are the results of analyses for samples received by the laboratory on 05/21/24 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|------------------|
| Received: | 05/21/2024 | Sampling Date: | 05/20/2024 |
| Reported: | 05/28/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SS 01 0' (H242785-01)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.805 | 0.200 | 05/22/2024 | ND | 2.05 | 102 | 2.00 | 3.68 | |
| Toluene* | 15.5 | 0.200 | 05/22/2024 | ND | 2.05 | 103 | 2.00 | 1.34 | |
| Ethylbenzene* | 17.4 | 0.200 | 05/22/2024 | ND | 2.10 | 105 | 2.00 | 0.0285 | |
| Total Xylenes* | 37.5 | 0.600 | 05/22/2024 | ND | 6.24 | 104 | 6.00 | 0.334 | |
| Total BTEX | 71.2 | 1.20 | 05/22/2024 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 05/22/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | S-06 |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 1620 | 50.0 | 05/21/2024 | ND | 212 | 106 | 200 | 2.41 | | |
| DRO >C10-C28* | 45900 | 50.0 | 05/21/2024 | ND | 196 | 97.8 | 200 | 1.91 | | |
| EXT DRO >C28-C36 | 5490 | 50.0 | 05/21/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 293 % 48.2-134

Surrogate: 1-Chlorooctadecane 1100 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|------------------|
| Received: | 05/21/2024 | Sampling Date: | 05/20/2024 |
| Reported: | 05/28/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SS 02 0' (H242785-02)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.300 | 0.250 | 05/22/2024 | ND | 1.92 | 96.1 | 2.00 | 1.02 | |
| Toluene* | 6.37 | 0.500 | 05/22/2024 | ND | 1.91 | 95.5 | 2.00 | 2.51 | QM-07 |
| Ethylbenzene* | 7.16 | 0.500 | 05/22/2024 | ND | 1.95 | 97.4 | 2.00 | 3.74 | QM-07 |
| Total Xylenes* | 14.9 | 1.50 | 05/22/2024 | ND | 5.62 | 93.6 | 6.00 | 4.15 | QM-07 |
| Total BTEX | 28.8 | 2.75 | 05/22/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 784 | 16.0 | 05/22/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | S-06 |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 459 | 50.0 | 05/21/2024 | ND | 212 | 106 | 200 | 2.41 | | |
| DRO >C10-C28* | 34200 | 50.0 | 05/21/2024 | ND | 196 | 97.8 | 200 | 1.91 | | |
| EXT DRO >C28-C36 | 4840 | 50.0 | 05/21/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 174 % 48.2-134

Surrogate: 1-Chlorooctadecane 1060 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|------------------|
| Received: | 05/21/2024 | Sampling Date: | 05/20/2024 |
| Reported: | 05/28/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SS 03 0' (H242785-03)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.250 | 0.250 | 05/22/2024 | ND | 1.92 | 96.1 | 2.00 | 1.02 | |
| Toluene* | 0.915 | 0.500 | 05/22/2024 | ND | 1.91 | 95.5 | 2.00 | 2.51 | |
| Ethylbenzene* | 1.39 | 0.500 | 05/22/2024 | ND | 1.95 | 97.4 | 2.00 | 3.74 | |
| Total Xylenes* | 4.50 | 1.50 | 05/22/2024 | ND | 5.62 | 93.6 | 6.00 | 4.15 | |
| Total BTEX | 6.81 | 2.75 | 05/22/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 19400 | 16.0 | 05/22/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | S-06 |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 227 | 50.0 | 05/21/2024 | ND | 212 | 106 | 200 | 2.41 | | |
| DRO >C10-C28* | 39200 | 50.0 | 05/21/2024 | ND | 196 | 97.8 | 200 | 1.91 | | |
| EXT DRO >C28-C36 | 5230 | 50.0 | 05/21/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 1030 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|------------------|
| Received: | 05/21/2024 | Sampling Date: | 05/20/2024 |
| Reported: | 05/28/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SS 04 0' (H242785-04)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.250 | 0.250 | 05/22/2024 | ND | 1.92 | 96.1 | 2.00 | 1.02 | |
| Toluene* | 2.60 | 0.500 | 05/22/2024 | ND | 1.91 | 95.5 | 2.00 | 2.51 | |
| Ethylbenzene* | 4.33 | 0.500 | 05/22/2024 | ND | 1.95 | 97.4 | 2.00 | 3.74 | |
| Total Xylenes* | 10.5 | 1.50 | 05/22/2024 | ND | 5.62 | 93.6 | 6.00 | 4.15 | |
| Total BTEX | 17.4 | 2.75 | 05/22/2024 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 17600 | 16.0 | 05/22/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | S-06 |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 475 | 50.0 | 05/21/2024 | ND | 212 | 106 | 200 | 2.41 | | |
| DRO >C10-C28* | 34500 | 50.0 | 05/21/2024 | ND | 196 | 97.8 | 200 | 1.91 | | |
| EXT DRO >C28-C36 | 4530 | 50.0 | 05/21/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 867 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|------------------|
| Received: | 05/21/2024 | Sampling Date: | 05/20/2024 |
| Reported: | 05/28/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SS 05 0' (H242785-05)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.250 | 0.250 | 05/22/2024 | ND | 1.92 | 96.1 | 2.00 | 1.02 | |
| Toluene* | 0.935 | 0.500 | 05/22/2024 | ND | 1.91 | 95.5 | 2.00 | 2.51 | |
| Ethylbenzene* | 2.06 | 0.500 | 05/22/2024 | ND | 1.95 | 97.4 | 2.00 | 3.74 | |
| Total Xylenes* | 6.72 | 1.50 | 05/22/2024 | ND | 5.62 | 93.6 | 6.00 | 4.15 | |
| Total BTEX | 9.72 | 2.75 | 05/22/2024 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 11400 | 16.0 | 05/22/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | S-06 |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 304 | 50.0 | 05/22/2024 | ND | 212 | 106 | 200 | 2.41 | | |
| DRO >C10-C28* | 35800 | 50.0 | 05/22/2024 | ND | 196 | 97.8 | 200 | 1.91 | | |
| EXT DRO >C28-C36 | 4190 | 50.0 | 05/22/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 903 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|------------------|
| Received: | 05/21/2024 | Sampling Date: | 05/20/2024 |
| Reported: | 05/28/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SS 06 0' (H242785-06)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 6.33 | 0.500 | 05/22/2024 | ND | 1.92 | 96.1 | 2.00 | 1.02 | |
| Toluene* | 28.5 | 0.500 | 05/22/2024 | ND | 1.91 | 95.5 | 2.00 | 2.51 | |
| Ethylbenzene* | 17.3 | 0.500 | 05/22/2024 | ND | 1.95 | 97.4 | 2.00 | 3.74 | |
| Total Xylenes* | 36.9 | 1.50 | 05/22/2024 | ND | 5.62 | 93.6 | 6.00 | 4.15 | |
| Total BTEX | 89.1 | 3.00 | 05/22/2024 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 992 | 16.0 | 05/22/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | S-06 |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 1610 | 50.0 | 05/22/2024 | ND | 212 | 106 | 200 | 2.41 | | |
| DRO >C10-C28* | 41500 | 50.0 | 05/22/2024 | ND | 196 | 97.8 | 200 | 1.91 | | |
| EXT DRO >C28-C36 | 4710 | 50.0 | 05/22/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 226 % 48.2-134

Surrogate: 1-Chlorooctadecane 1090 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Ben Bellill
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 P.O. #: _____
 Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E Green St
 City: Carlsbad State: NM Zip: 88220
 Project #: 03C1558361 Project Owner: XTO
 Project Name: Big Fiddy Unit 34 Hackberry
 Project Location: 32,62201,-103,85107
 Phone #: _____
 State: NM Zip: 88220
 Project Location: 32,62201,-103,85107
 Phone #: _____
 Project Name: _____
 Project Location: _____
 Project Owner: _____
 Project #: _____
 City: _____ State: _____ Zip: _____
 Address: _____
 Attn: _____
 Company: _____
 P.O. #: _____

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | ANALYSIS |
|----------|-------------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|---------|-------|----------|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | |
| 184085 | SS01 | 0' | | | | | | | | | 5/20/24 | 12:40 | BTEX |
| 2 | SS02 | 1' | | | | | | | | | 12:45 | 12:56 | TPH |
| 3 | SS03 | 2' | | | | | | | | | 12:55 | 13:00 | Chloride |
| 4 | SS04 | 3' | | | | | | | | | 13:05 | 13:05 | |
| 5 | SS05 | 4' | | | | | | | | | | | |
| 6 | SS06 | 5' | | | | | | | | | | | |

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Relinquished By: Omar Handy
 Date: 5/21/24
 Received By: Sprockelquely
 Date: 5/21/24
 Turnaround Time: _____
 Standard Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No Corrected Temp. °C
 Remarks: bellill@ensolum.com

Delivered By: (Circle One) Observed Temp. °C 28.2
 Corrected Temp. °C _____
 Sample Condition Cool Intact Yes No No
 Checked By: (Initials) _____
 Thermometer ID #449-#140
 Correction Factor -0.5°C
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No Corrected Temp. °C



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

June 06, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 34 HACKBERRY

Enclosed are the results of analyses for samples received by the laboratory on 05/31/24 16:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|----------------|
| Received: | 05/31/2024 | Sampling Date: | 05/30/2024 |
| Reported: | 06/06/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shari Cisneros |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: PH 01 0.5' (H243091-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | S-04 | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.100 | 0.100 | 06/05/2024 | ND | 1.97 | 98.3 | 2.00 | 8.85 | |
| Toluene* | 1.59 | 0.100 | 06/05/2024 | ND | 1.96 | 97.8 | 2.00 | 4.78 | |
| Ethylbenzene* | 8.60 | 0.100 | 06/05/2024 | ND | 1.94 | 97.2 | 2.00 | 4.19 | |
| Total Xylenes* | 31.4 | 0.300 | 06/05/2024 | ND | 5.67 | 94.5 | 6.00 | 4.37 | |
| Total BTEX | 41.6 | 0.600 | 06/05/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 425 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | S-04 | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 06/05/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 705 | 10.0 | 06/04/2024 | ND | 194 | 97.2 | 200 | 0.581 | |
| DRO >C10-C28* | 4520 | 10.0 | 06/04/2024 | ND | 182 | 91.2 | 200 | 1.41 | |
| EXT DRO >C28-C36 | 694 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 175 % 48.2-134

Surrogate: 1-Chlorooctadecane 185 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|----------------|
| Received: | 05/31/2024 | Sampling Date: | 05/30/2024 |
| Reported: | 06/06/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shari Cisneros |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: PH 01A 4' (H243091-02)

| 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 | 06/05/2024 | ND | 1.97 | 98.3 | 2.00 | 8.85 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.96 | 97.8 | 2.00 | 4.78 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.94 | 97.2 | 2.00 | 4.19 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.67 | 94.5 | 6.00 | 4.37 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 06/05/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 194 | 97.2 | 200 | 0.581 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/04/2024 | ND | 182 | 91.2 | 200 | 1.41 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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



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Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|----------------|
| Received: | 05/31/2024 | Sampling Date: | 05/30/2024 |
| Reported: | 06/06/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shari Cisneros |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: PH 02 0.5' (H243091-03)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 1.97 | 1.00 | 06/05/2024 | ND | 1.94 | 97.2 | 2.00 | 2.64 | GC-NC1 |
| Toluene* | 38.7 | 1.00 | 06/05/2024 | ND | 1.91 | 95.5 | 2.00 | 3.68 | |
| Ethylbenzene* | 39.8 | 1.00 | 06/05/2024 | ND | 1.77 | 88.4 | 2.00 | 6.68 | |
| Total Xylenes* | 93.2 | 3.00 | 06/05/2024 | ND | 5.51 | 91.8 | 6.00 | 6.85 | |
| Total BTEX | 174 | 6.00 | 06/05/2024 | ND | | | | | GC-NC1 |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 832 | 16.0 | 06/05/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | S-04 |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 2240 | 10.0 | 06/04/2024 | ND | 194 | 97.2 | 200 | 0.581 | | |
| DRO >C10-C28* | 6460 | 10.0 | 06/04/2024 | ND | 182 | 91.2 | 200 | 1.41 | | |
| EXT DRO >C28-C36 | 874 | 10.0 | 06/04/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 144 % 48.2-134

Surrogate: 1-Chlorooctadecane 208 % 49.1-148

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



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Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|----------------|
| Received: | 05/31/2024 | Sampling Date: | 05/30/2024 |
| Reported: | 06/06/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shari Cisneros |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: PH 02A 3' (H243091-04)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|-----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/04/2024 | ND | 1.94 | 97.2 | 2.00 | 2.64 | |
| Toluene* | 0.062 | 0.050 | 06/04/2024 | ND | 1.91 | 95.5 | 2.00 | 3.68 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/04/2024 | ND | 1.77 | 88.4 | 2.00 | 6.68 | |
| Total Xylenes* | <0.150 | 0.150 | 06/04/2024 | ND | 5.51 | 91.8 | 6.00 | 6.85 | |
| Total BTEX | <0.300 | 0.300 | 06/04/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 06/05/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 194 | 97.2 | 200 | 0.581 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/04/2024 | ND | 182 | 91.2 | 200 | 1.41 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|----------------|
| Received: | 05/31/2024 | Sampling Date: | 05/30/2024 |
| Reported: | 06/06/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shari Cisneros |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: PH 03 0.5' (H243091-05)

| 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 | 06/04/2024 | ND | 1.94 | 97.2 | 2.00 | 2.64 | |
| Toluene* | 0.210 | 0.050 | 06/04/2024 | ND | 1.91 | 95.5 | 2.00 | 3.68 | |
| Ethylbenzene* | 1.46 | 0.050 | 06/04/2024 | ND | 1.77 | 88.4 | 2.00 | 6.68 | |
| Total Xylenes* | 3.08 | 0.150 | 06/04/2024 | ND | 5.51 | 91.8 | 6.00 | 6.85 | |
| Total BTEX | 4.75 | 0.300 | 06/04/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 320 | 16.0 | 06/05/2024 | ND | 432 | 108 | 400 | 3.64 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | S-04 |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 103 | 10.0 | 06/04/2024 | ND | 194 | 97.2 | 200 | 0.581 | | |
| DRO >C10-C28* | 1710 | 10.0 | 06/04/2024 | ND | 182 | 91.2 | 200 | 1.41 | | |
| EXT DRO >C28-C36 | 312 | 10.0 | 06/04/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 173 % 49.1-148

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



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Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|----------------|
| Received: | 05/31/2024 | Sampling Date: | 05/30/2024 |
| Reported: | 06/06/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shari Cisneros |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: PH 03A 4' (H243091-06)

| 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 | 06/04/2024 | ND | 1.94 | 97.2 | 2.00 | 2.64 | | |
| Toluene* | <0.050 | 0.050 | 06/04/2024 | ND | 1.91 | 95.5 | 2.00 | 3.68 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/04/2024 | ND | 1.77 | 88.4 | 2.00 | 6.68 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/04/2024 | ND | 5.51 | 91.8 | 6.00 | 6.85 | | |
| Total BTEX | <0.300 | 0.300 | 06/04/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 480 | 16.0 | 06/05/2024 | ND | 432 | 108 | 400 | 3.64 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 194 | 97.2 | 200 | 0.581 | | |
| DRO >C10-C28* | 37.2 | 10.0 | 06/04/2024 | ND | 182 | 91.2 | 200 | 1.41 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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*=Accredited Analyte

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



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits.
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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Handwritten signature of Mike Snyder

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



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

June 07, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 34 HACKBERRY

Enclosed are the results of analyses for samples received by the laboratory on 06/03/24 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 01 4' (H243120-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 02 4' (H243120-02)

| 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 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 256 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | | |
| DRO >C10-C28* | 39.9 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SW 01 0-4' (H243120-03)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | |
| DRO >C10-C28* | 62.2 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | |
| EXT DRO >C28-C36 | 15.2 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SW 02 0-4' (H243120-04)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 496 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|----------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | |
| DRO >C10-C28* | 362 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | |
| EXT DRO >C28-C36 | 135 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 03 4' (H243120-05)

| 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 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | |
| DRO >C10-C28* | 28.4 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 04 4' (H243120-06)

| 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 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2480 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | |
| DRO >C10-C28* | 122 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | |
| EXT DRO >C28-C36 | 35.4 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SW 03 0-4' (H243120-07)

| 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 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 688 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | |
| DRO >C10-C28* | 18.8 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SW 04 0-4' (H243120-08)

| 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 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 336 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 05 4' (H243120-09)

| 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 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1120 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | |
| DRO >C10-C28* | 12.9 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 06 4' (H243120-10)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 624 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 94.8 | 200 | 2.88 | | |
| DRO >C10-C28* | 38.4 | 10.0 | 06/04/2024 | ND | 214 | 107 | 200 | 2.55 | | |
| EXT DRO >C28-C36 | 15.1 | 10.0 | 06/04/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 07 4' (H243120-11)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 576 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2024 | ND | 190 | 94.8 | 200 | 2.88 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/05/2024 | ND | 214 | 107 | 200 | 2.55 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/03/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 08 4' (H243120-12)

| 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 | 06/05/2024 | ND | 1.92 | 96.2 | 2.00 | 0.294 | | |
| Toluene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.92 | 96.1 | 2.00 | 0.939 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/05/2024 | ND | 1.79 | 89.5 | 2.00 | 1.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/05/2024 | ND | 5.60 | 93.4 | 6.00 | 1.59 | | |
| Total BTEX | <0.300 | 0.300 | 06/05/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 144 | 16.0 | 06/06/2024 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/05/2024 | ND | 190 | 94.8 | 200 | 2.88 | | |
| DRO >C10-C28* | 13.5 | 10.0 | 06/05/2024 | ND | 214 | 107 | 200 | 2.55 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/05/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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



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Notes and Definitions

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

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Handwritten signature of Mike Snyder

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: **Ensolium, LLC** P.O. #: _____
 Project Manager: **Ben Bellill** Company: **XTO Energy**
 Address: **601 N. Marrenfeld St. STE 400 3122 National Parks Hwy** Attn: **Amy Ruth**
 City: **Midland Carlsbad** State: **NM** Zip: **79704 88220** Address: **3104 E. Greenest**
 Phone #: **989-854-0852** Fax #: _____ City: **Carlsbad**
 Project #: **03C 1558301** Project Owner: _____ State: **NM** Zip: **88220**
 Project Name: **Big Eddy Unit 34 Hackberry** Phone #: _____
 Project Location: **32.021892, -103.851520** Fax #: _____
 Sampler Name: **Mariah O'Dell**

| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | ANALYSIS | |
|----------|-------------|---------------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------|-------|-----------|------------|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | | ACID/BASE: |
| H2413120 | FS01 | 4' | C | 1 | | | X | | | | X | 8:35 | Chlorides | X |
| | FS02 | 4' | C | 1 | | | X | | | | X | 8:40 | TPH | X |
| | SW01 | 0-4' | | | | | | | | | | 8:45 | BTEX | X |
| | SW02 | 0-4' | | | | | | | | | | 9:10 | | |
| | FS03 | 4' | | | | | | | | | | 12:30 | | |
| | FS04 | 4' | | | | | | | | | | 12:40 | | |
| | SW03 | 0-4' | | | | | | | | | | 12:45 | | |
| | SW04 | 0-4' | | | | | | | | | | 12:50 | | |
| | FS05 | 4' | | | | | | | | | | 13:05 | | |
| | FS010 | 4' | | | | | | | | | | | | |

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Relinquished By: _____ Date: **03/24** Time: **10:21**
 Received By: **APARAS** Date: **03/24** Time: **10:21**
 Relinquished By: _____ Date: **03/24** Time: **10:21**
 Received By: _____ Date: **03/24** Time: **10:21**

Delivered By: (Circle One) Observed Temp. °C _____ Corrected Temp. °C _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact Yes No
 Checked By: (Initials) _____
 Turnaround Time: Standard Rush
 Thermometer ID: #449-PP-11324100
 Correction Factor: -0.5°C
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Observed Temp. °C _____ Corrected Temp. °C _____

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Ben Bell
 Address: 601 N. Marnefield St STE 400 3122 National Parks Hwy
 City: Midland Carlsbad State: TX Zip: 79704-88220
 Phone #: 989-854-0852 Fax #: 989-854-0852
 Project #: 03C1558301 Project Owner: Big Eddy Unit 34 Hackberry
 Project Name: Big Eddy Unit 34 Hackberry
 Project Location: 32. W21802, -103.851520
 Sampler Name: Mahaha O'Dell
 P.O. #: Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E. Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #: Fax #:

| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | PRESERV | DATE | TIME | ANALYSIS REQUEST |
|-----------|-------------|---------------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|---------|-------------|----------|------------------|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | | |
| H 24/312X | ES07 | 4' | CI | | | X | | | | | X | 03/24 13:50 | Chloride | |
| | ES08 | 4' | CI | | | X | | | | | X | 03/24 13:55 | TPH | |
| | | | | | | | | | | | | | BTEX | |

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Relinquished By: [Signature] Date: 03/24 Time: 10:21
 Received By: [Signature] Date: 03-24 Time: 11:23
 Verbal Result: Yes No Add'l Phone #: [Blank]
 All Results are emailed. Please provide Email address: dbell@ensolum.com, modelle@ensolum.com, Bbernhings@ensolum.com
 REMARKS: INCIDENT #: NAPP2412351243
 Facility ID: FAPP2120341045
 Cost Center: 1082491001
 Turnaround Time: 5 Days Standard Rush
 Thermometer ID: #113 And 324 Correction Factor: -0.5 C IVD
 Bacteria (only) Sample Condition: Cool Intact Yes No Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C: 3.0
 Corrected Temp. °C: [Blank]
 Sample - UPS - Bus - Other: Yes No Yes No
 CHECKED BY: [Signature]
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

June 07, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 34 HACKBERRY

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 15:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 09 4' (H243169-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/06/2024 | ND | 1.95 | 97.7 | 2.00 | 1.48 | |
| Toluene* | <0.050 | 0.050 | 06/06/2024 | ND | 2.00 | 100 | 2.00 | 1.12 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/06/2024 | ND | 2.00 | 100 | 2.00 | 0.769 | |
| Total Xylenes* | <0.150 | 0.150 | 06/06/2024 | ND | 5.85 | 97.6 | 6.00 | 0.731 | |
| Total BTEX | <0.300 | 0.300 | 06/06/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 560 | 16.0 | 06/07/2024 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 10 4' (H243169-02)

| 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 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 06/07/2024 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | |
| DRO >C10-C28* | 19.1 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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



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Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 11 4' (H243169-03)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 592 | 16.0 | 06/07/2024 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | | |
| DRO >C10-C28* | 47.3 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SW 05 0-4' (H243169-04)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 06/07/2024 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 12 4' (H243169-05)

| 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 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 288 | 16.0 | 06/07/2024 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | | |
| DRO >C10-C28* | 38.0 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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



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Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 13 4' (H243169-06)

| 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 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 736 | 16.0 | 06/07/2024 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | | |
| DRO >C10-C28* | 14.1 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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



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Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SW 06 0-4' (H243169-07)

| 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 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 560 | 16.0 | 06/07/2024 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | |
| DRO >C10-C28* | 16.7 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: SW 07 0-4' (H243169-08)

| 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 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 928 | 16.0 | 06/07/2024 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 60.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.6 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 14 4' (H243169-09)

| 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 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 160 | 16.0 | 06/07/2024 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

Cardinal Laboratories

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 15 4' (H243169-10)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 144 | 16.0 | 06/07/2024 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/04/2024 | Sampling Date: | 06/04/2024 |
| Reported: | 06/07/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.62201, -103.85107 | | |

Sample ID: FS 16 4' (H243169-11)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.03 | 102 | 2.00 | 4.26 | | |
| Toluene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.15 | 107 | 2.00 | 4.13 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/07/2024 | ND | 2.19 | 109 | 2.00 | 4.30 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/07/2024 | ND | 6.71 | 112 | 6.00 | 3.93 | | |
| Total BTEX | <0.300 | 0.300 | 06/07/2024 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 208 | 16.0 | 06/07/2024 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 06/06/2024 | ND | 206 | 103 | 200 | 0.291 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/06/2024 | ND | 202 | 101 | 200 | 2.95 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/06/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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

Notes and Definitions

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Ben Belli
 Address: 604 N. Marland St. STE 400- 3122 National Parks Hwy
 City: Midland- Carlsbad State: TX NY Zip: 79704-88220
 Phone #: 999-854-0852 Fax #: 79704-88220
 Project #: 03615583101 Project Owner: City: Carlsbad
 Project Name: Big Eddy Unit 34 Hackberry State: NM Zip: 88220
 Project Location: 32.021892, -103.851520 Phone #:
 Sampler Name: Mariha O'Dell Fax #:
 FOR LAB USE ONLY

P.O. #:
 Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E. Greenest
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:

| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | ANALYSIS REQUEST |
|----------|-------------|---------------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|--------|-------|------------------|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | |
| H2431001 | FS09 | 4' | C | 1 | X | | | | | | 6/4/24 | 10:35 | Chlorides |
| 2 | FS10 | 4' | C | 1 | X | | | | | | 6/4/24 | 10:40 | TPH |
| 3 | FS11 | 4' | C | 1 | X | | | | | | 6/4/24 | 10:45 | BTEX |
| 4 | SW05 | 0-4' | | | | | | | | | 6/4/24 | 12:15 | |
| 5 | FS12 | 4' | | | | | | | | | 6/4/24 | 12:20 | |
| 6 | FS13 | 4' | | | | | | | | | 6/4/24 | 12:25 | |
| 7 | SW06 | 0-4' | | | | | | | | | 6/4/24 | 12:45 | |
| 8 | SW07 | 0-4' | | | | | | | | | 6/4/24 | 12:50 | |
| 9 | FS14 | 4' | | | | | | | | | 6/4/24 | 12:55 | |
| 10 | FS15 | 4' | | | | | | | | | 6/4/24 | 13:00 | |

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Relinquished By: [Signature] Date: 6/4/2024
 Received By: [Signature] Date: 6/4/24
 Relinquished By: [Signature] Date: 6/4/24
 Received By: [Signature] Date: 6/4/24
 Turnaround Time: 5 days Standard Rush 142
 Thermometer ID #143
 Correction Factor -0.5°C
 Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C
 Sampler - UPS - Bus - Other: Sample Condition Cool Intact Yes No
 Checked By: (Initials) [Signature]
 Remarks: Incident #: NAPP2412351243
 Facility ID: FAPP2120341405
 Cost Center: 10824101001
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

July 05, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 34 HACKBERRY

Enclosed are the results of analyses for samples received by the laboratory on 06/28/24 11:31.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/28/2024 | Sampling Date: | 06/27/2024 |
| Reported: | 07/05/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.621919-103.851519 | | |

Sample ID: BH 01 0.5' (H243893-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/04/2024 | ND | 1.98 | 99.1 | 2.00 | 5.75 | |
| Toluene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 5.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 6.68 | |
| Total Xylenes* | <0.150 | 0.150 | 07/04/2024 | ND | 6.60 | 110 | 6.00 | 6.18 | |
| Total BTEX | <0.300 | 0.300 | 07/04/2024 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 368 | 16.0 | 07/03/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/02/2024 | ND | 199 | 99.4 | 200 | 3.66 | |
| DRO >C10-C28* | 111 | 10.0 | 07/02/2024 | ND | 181 | 90.4 | 200 | 2.92 | |
| EXT DRO >C28-C36 | 55.3 | 10.0 | 07/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/28/2024 | Sampling Date: | 06/27/2024 |
| Reported: | 07/05/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.621919-103.851519 | | |

Sample ID: BH 01 1' (H243893-02)

| 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 | 07/04/2024 | ND | 1.98 | 99.1 | 2.00 | 5.75 | |
| Toluene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 5.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 6.68 | |
| Total Xylenes* | <0.150 | 0.150 | 07/04/2024 | ND | 6.60 | 110 | 6.00 | 6.18 | |
| Total BTEX | <0.300 | 0.300 | 07/04/2024 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 07/03/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|----------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/02/2024 | ND | 199 | 99.4 | 200 | 3.66 | |
| DRO >C10-C28* | 359 | 10.0 | 07/02/2024 | ND | 181 | 90.4 | 200 | 2.92 | |
| EXT DRO >C28-C36 | 231 | 10.0 | 07/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/28/2024 | Sampling Date: | 06/27/2024 |
| Reported: | 07/05/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.621919-103.851519 | | |

Sample ID: BH 02 0.5' (H243893-03)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/04/2024 | ND | 1.98 | 99.1 | 2.00 | 5.75 | |
| Toluene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 5.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 6.68 | |
| Total Xylenes* | <0.150 | 0.150 | 07/04/2024 | ND | 6.60 | 110 | 6.00 | 6.18 | |
| Total BTEX | <0.300 | 0.300 | 07/04/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 368 | 16.0 | 07/03/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|----------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/03/2024 | ND | 199 | 99.4 | 200 | 3.66 | |
| DRO >C10-C28* | 481 | 10.0 | 07/03/2024 | ND | 181 | 90.4 | 200 | 2.92 | |
| EXT DRO >C28-C36 | 316 | 10.0 | 07/03/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/28/2024 | Sampling Date: | 06/27/2024 |
| Reported: | 07/05/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.621919-103.851519 | | |

Sample ID: BH 02 1' (H243893-04)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/04/2024 | ND | 1.98 | 99.1 | 2.00 | 5.75 | |
| Toluene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 5.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 6.68 | |
| Total Xylenes* | <0.150 | 0.150 | 07/04/2024 | ND | 6.60 | 110 | 6.00 | 6.18 | |
| Total BTEX | <0.300 | 0.300 | 07/04/2024 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 07/03/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|----------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/03/2024 | ND | 199 | 99.4 | 200 | 3.66 | |
| DRO >C10-C28* | 291 | 10.0 | 07/03/2024 | ND | 181 | 90.4 | 200 | 2.92 | |
| EXT DRO >C28-C36 | 198 | 10.0 | 07/03/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 06/28/2024 | Sampling Date: | 06/27/2024 |
| Reported: | 07/05/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.621919-103.851519 | | |

Sample ID: BH 02 2' (H243893-05)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/04/2024 | ND | 1.98 | 99.1 | 2.00 | 5.75 | |
| Toluene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 5.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/04/2024 | ND | 2.14 | 107 | 2.00 | 6.68 | |
| Total Xylenes* | <0.150 | 0.150 | 07/04/2024 | ND | 6.60 | 110 | 6.00 | 6.18 | |
| Total BTEX | <0.300 | 0.300 | 07/04/2024 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 07/03/2024 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/03/2024 | ND | 199 | 99.4 | 200 | 3.66 | |
| DRO >C10-C28* | 264 | 10.0 | 07/03/2024 | ND | 181 | 90.4 | 200 | 2.92 | |
| EXT DRO >C28-C36 | 163 | 10.0 | 07/03/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Notes and Definitions

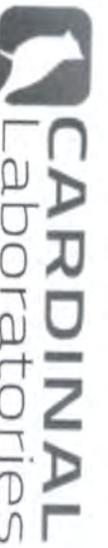
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Ben Beill
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM zip: 88220
 Phone #: 337 257-8307 Fax #:
 Project #: 03C1558361 Project Owner: XTO
 Project Name: Big Eddy Unit 34 Hackberry
 Project Location: 32.621919, -103.851519
 Sampler Name: Omar Hamdy
 P.O. #:
 Company: XTO Energy Inc.
 Attn: Amy Ruth
 Address: 3104 E. Green St.
 City: Carlsbad State: NM zip: 88220
 Phone #:
 Fax #:

| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | BTEX | TPH | CHLORIDE |
|----------|-------------|---------------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|---------|-------|------|-----|----------|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | | | | | |
| H243893 | 1 BH101 | 0.5 | G | | | | | | | | | 6/22/14 | 13:40 | | | |
| | 2 BH101 | 1 | | | | | | | | | | | 13:45 | | | |
| | 3 BH102 | 0.5 | | | | | | | | | | | 10:30 | | | |
| | 4 BH102 | 1 | | | | | | | | | | | 12:25 | | | |
| | 5 BH102 | 2 | | | | | | | | | | | 12:30 | | | |

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Relinquished By: *[Signature]*
 Received By: *[Signature]*
 Date: 6-28-24
 Time: 11:31
 Delivered By: (Circle One) UPS Bus Other:
 Observed Temp. °C: 53
 Corrected Temp. °C:
 Sample Condition: Cool Intact
 CHECKED BY: (Initials) *[Signature]*
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool Intact
 Corrected Temp. °C:
 REMARKS: NAPP2412351243
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: *bbell@ensolum.com*
 Cost Center: 1082461001

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



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

July 23, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 34 HACKBERRY

Enclosed are the results of analyses for samples received by the laboratory on 07/12/24 15:14.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| | |
|------------------|-------------------------------------------------|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG) |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

| | | |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|
| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 34 HACKBERRY Project Number: 03C1558361 Project Manager: BEN BELILL Fax To: | Reported: 23-Jul-24 15:19 |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|-----------------|-----------------|
| FS 17 4' | H244184-01 | Soil | 12-Jul-24 08:45 | 12-Jul-24 15:14 |
| SW 08 0-4' | H244184-02 | Soil | 12-Jul-24 08:40 | 12-Jul-24 15:14 |

07/23/24 - Client changed the sample ID on -02 (see COC). This is the revised report and will replace the one sent on 07/15/24.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

| | | |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|
| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 34 HACKBERRY Project Number: 03C1558361 Project Manager: BEN BELILL Fax To: | Reported: 23-Jul-24 15:19 |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|

FS 17 4'
H244184-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

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Inorganic Compounds

| | | | | | | | | | | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 352 | | 16.0 | mg/kg | 4 | 4071513 | CT | 15-Jul-24 | 4500-Cl-B | |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 112 % | | 71.5-134 | 4071237 | JH | 13-Jul-24 | 8021B | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4071202 | MS | 13-Jul-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4071202 | MS | 13-Jul-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4071202 | MS | 13-Jul-24 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 133 % | | 48.2-134 | 4071202 | MS | 13-Jul-24 | 8015B | |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 143 % | | 49.1-148 | 4071202 | MS | 13-Jul-24 | 8015B | |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

| | | |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|
| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 34 HACKBERRY Project Number: 03C1558361 Project Manager: BEN BELILL Fax To: | Reported: 23-Jul-24 15:19 |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|

**SW 08 0-4'
H244184-02 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Inorganic Compounds

| | | | | | | | | | | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 160 | | 16.0 | mg/kg | 4 | 4071513 | CT | 15-Jul-24 | 4500-CI-B | |
|----------|-----|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 4071237 | JH | 13-Jul-24 | 8021B | |

| | | | | | | | | | | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) | | | 124 % | | 71.5-134 | 4071237 | JH | 13-Jul-24 | 8021B | |
|---------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 4071202 | MS | 13-Jul-24 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 4071202 | MS | 13-Jul-24 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 4071202 | MS | 13-Jul-24 | 8015B | |

| | | | | | | | | | | |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane | | | 124 % | | 48.2-134 | 4071202 | MS | 13-Jul-24 | 8015B | |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

| | | | | | | | | | | |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane | | | 134 % | | 49.1-148 | 4071202 | MS | 13-Jul-24 | 8015B | |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

| | | |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|
| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 34 HACKBERRY Project Number: 03C1558361 Project Manager: BEN BELILL Fax To: | Reported: 23-Jul-24 15:19 |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|

Inorganic Compounds - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch 4071513 - 1:4 DI Water | | | | | | | | | | |
| Blank (4071513-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 15-Jul-24 | | | | | | | | | | |
| Chloride | ND | 16.0 | mg/kg | | | | | | | |
| LCS (4071513-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 15-Jul-24 | | | | | | | | | | |
| Chloride | 432 | 16.0 | mg/kg | 400 | | 108 | 80-120 | | | |
| LCS Dup (4071513-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 15-Jul-24 | | | | | | | | | | |
| Chloride | 432 | 16.0 | mg/kg | 400 | | 108 | 80-120 | 0.00 | 20 | |

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

| | | |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|
| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 34 HACKBERRY Project Number: 03C1558361 Project Manager: BEN BELILL Fax To: | Reported: 23-Jul-24 15:19 |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 4071237 - Volatiles

Blank (4071237-BLK1)

Prepared & Analyzed: 12-Jul-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) | 0.0581 | | mg/kg | 0.0500 | | 116 | 71.5-134 | | | |

LCS (4071237-BS1)

Prepared & Analyzed: 12-Jul-24

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|------|
| Benzene | 2.24 | 0.050 | mg/kg | 2.00 | | 112 | 82.8-130 | | | |
| Toluene | 2.34 | 0.050 | mg/kg | 2.00 | | 117 | 86-128 | | | |
| Ethylbenzene | 2.52 | 0.050 | mg/kg | 2.00 | | 126 | 85.9-128 | | | |
| m,p-Xylene | 5.18 | 0.100 | mg/kg | 4.00 | | 129 | 89-129 | | | |
| o-Xylene | 2.58 | 0.050 | mg/kg | 2.00 | | 129 | 86.1-125 | | | BS-3 |
| Total Xylenes | 7.75 | 0.150 | mg/kg | 6.00 | | 129 | 88.2-128 | | | BS-3 |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0579 | | mg/kg | 0.0500 | | 116 | 71.5-134 | | | |

LCS Dup (4071237-BSD1)

Prepared & Analyzed: 12-Jul-24

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|-------|------|--|
| Benzene | 2.26 | 0.050 | mg/kg | 2.00 | | 113 | 82.8-130 | 0.879 | 15.8 | |
| Toluene | 2.31 | 0.050 | mg/kg | 2.00 | | 116 | 86-128 | 1.00 | 15.9 | |
| Ethylbenzene | 2.47 | 0.050 | mg/kg | 2.00 | | 123 | 85.9-128 | 2.28 | 16 | |
| m,p-Xylene | 5.05 | 0.100 | mg/kg | 4.00 | | 126 | 89-129 | 2.56 | 16.2 | |
| o-Xylene | 2.50 | 0.050 | mg/kg | 2.00 | | 125 | 86.1-125 | 3.23 | 16.7 | |
| Total Xylenes | 7.54 | 0.150 | mg/kg | 6.00 | | 126 | 88.2-128 | 2.78 | 16.3 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0557 | | mg/kg | 0.0500 | | 111 | 71.5-134 | | | |

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

| | | |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|
| ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 | Project: BIG EDDY UNIT 34 HACKBERRY Project Number: 03C1558361 Project Manager: BEN BELILL Fax To: | Reported: 23-Jul-24 15:19 |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 4071202 - General Prep - Organics

| | | | | | | | | | | |
|-------------------------------|------|------|-------|-----------------------------------------|--|------|----------|--|--|--|
| Blank (4071202-BLK1) | | | | Prepared: 12-Jul-24 Analyzed: 13-Jul-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 | 47.4 | | mg/kg | 50.0 | | 94.8 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 48.8 | | mg/kg | 50.0 | | 97.6 | 49.1-148 | | | |

| | | | | | | | | | | |
|-------------------------------|------|------|-------|-----------------------------------------|--|-----|----------|--|--|--|
| LCS (4071202-BS1) | | | | Prepared: 12-Jul-24 Analyzed: 13-Jul-24 | | | | | | |
| GRO C6-C10 | 223 | 10.0 | mg/kg | 200 | | 111 | 66.4-123 | | | |
| DRO >C10-C28 | 219 | 10.0 | mg/kg | 200 | | 110 | 66.5-118 | | | |
| Total TPH C6-C28 | 442 | 10.0 | mg/kg | 400 | | 110 | 77.6-123 | | | |
| Surrogate: 1-Chlorooctane | 51.2 | | mg/kg | 50.0 | | 102 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 52.4 | | mg/kg | 50.0 | | 105 | 49.1-148 | | | |

| | | | | | | | | | | |
|-------------------------------|------|------|-------|-----------------------------------------|--|------|----------|------|------|--|
| LCS Dup (4071202-BSD1) | | | | Prepared: 12-Jul-24 Analyzed: 13-Jul-24 | | | | | | |
| GRO C6-C10 | 216 | 10.0 | mg/kg | 200 | | 108 | 66.4-123 | 2.88 | 17.7 | |
| DRO >C10-C28 | 203 | 10.0 | mg/kg | 200 | | 101 | 66.5-118 | 7.75 | 21 | |
| Total TPH C6-C28 | 419 | 10.0 | mg/kg | 400 | | 105 | 77.6-123 | 5.27 | 18.5 | |
| Surrogate: 1-Chlorooctane | 49.5 | | mg/kg | 50.0 | | 99.1 | 48.2-134 | | | |
| Surrogate: 1-Chlorooctadecane | 52.0 | | mg/kg | 50.0 | | 104 | 49.1-148 | | | |

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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

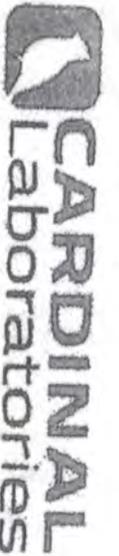
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensochem, LLC
 Project Manager: Ben Belli
 Address: 3122 National Parks Hwy
 City: CARLSBAD State: NM Zip: 88220
 Phone #: (989) 854-0852 Fax #:
 Project #: 03G1558301 Project Owner:
 Project Name: Big Eddy Unit 34 Hackberry
 Project Location: 32.1221892 -103.8515207
 Sampler Name: Mariah O'Bell
 P.O. #:
 Company: XTO Energy
 Attn: Amy Ruth
 Address: 3104 E. Greene St
 City: CARLSBAD State: NM Zip: 88220
 Phone #:
 Fax #:
 FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | Chloride | TPH | BTEX |
|----------|-------------|--------------|-------------------|--------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|-------|----------|-----|------|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | | | |
| 1844184 | ES17 | 4' | C | 1 | <input checked="" type="checkbox"/> | 11/21/24 | 8:45 | X | X | X |
| | SMD 18* | 0-4' | C | 1 | <input checked="" type="checkbox"/> | 11/21/24 | 8:40 | X | X | X |
| | BHD5 | 0-5' | G | 1 | <input checked="" type="checkbox"/> | 11/21/24 | 12:00 | X | X | X |
| | BHD3A | 4' | G | 1 | <input checked="" type="checkbox"/> | 11/21/24 | 12:20 | X | X | X |

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Relinquished By: *[Signature]*
 Date: 7/12/24
 Time: 13:14
 Received By: *[Signature]*
 Date:
 Time:
 Verbal Result: Yes No / Add'l Phone #:
 All Results are emailed. Please provide Email address:
 bell@ensolum.com, model@ensolum.com

Delivered By: (Circle One) UPS - Bus - Other:
 Observed Temp. °C: 55.4
 Corrected Temp. °C:
 Sample Condition: Cool Intact Yes No
 Checked By: *[Signature]*
 Turnaround Time: 24 hrs
 Standard Bacteria (only) Sample Condition:
 Cool Intact Yes No
 Observed Temp. °C:
 Corrected Temp. °C:
 Remarks: F acility ID: APP212034IUU5 *Customer requested
 Incident #: APP0412351243 ID change
 Cost center: 1082461001

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



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

July 18, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 34 HACKBERRY

Enclosed are the results of analyses for samples received by the laboratory on 07/12/24 15:14.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|------------------|
| Received: | 07/12/2024 | Sampling Date: | 07/12/2024 |
| Reported: | 07/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.621892,-103.851520 | | |

Sample ID: BH 03 0.5' (H244187-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/18/2024 | ND | 2.10 | 105 | 2.00 | 4.24 | |
| Toluene* | <0.050 | 0.050 | 07/18/2024 | ND | 2.28 | 114 | 2.00 | 4.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/18/2024 | ND | 2.35 | 118 | 2.00 | 5.47 | |
| Total Xylenes* | <0.150 | 0.150 | 07/18/2024 | ND | 7.29 | 122 | 6.00 | 4.59 | |
| Total BTEX | <0.300 | 0.300 | 07/18/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1170 | 16.0 | 07/16/2024 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/16/2024 | ND | 181 | 90.5 | 200 | 6.12 | |
| DRO >C10-C28* | 379 | 10.0 | 07/16/2024 | ND | 176 | 88.2 | 200 | 11.5 | |
| EXT DRO >C28-C36 | 228 | 10.0 | 07/16/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|------------------|
| Received: | 07/12/2024 | Sampling Date: | 07/12/2024 |
| Reported: | 07/18/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.621892,-103.851520 | | |

Sample ID: BH 03A 4' (H244187-02)

| 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 | 07/15/2024 | ND | 2.10 | 105 | 2.00 | 4.24 | | |
| Toluene* | <0.050 | 0.050 | 07/15/2024 | ND | 2.28 | 114 | 2.00 | 4.58 | | |
| Ethylbenzene* | <0.050 | 0.050 | 07/15/2024 | ND | 2.35 | 118 | 2.00 | 5.47 | | |
| Total Xylenes* | <0.150 | 0.150 | 07/15/2024 | ND | 7.29 | 122 | 6.00 | 4.59 | | |
| Total BTEX | <0.300 | 0.300 | 07/15/2024 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 384 | 16.0 | 07/16/2024 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 07/15/2024 | ND | 181 | 90.5 | 200 | 6.12 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/15/2024 | ND | 176 | 88.2 | 200 | 11.5 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/15/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

July 24, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT 34 HACKBERRY

Enclosed are the results of analyses for samples received by the laboratory on 07/23/24 16:23.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 07/23/2024 | Sampling Date: | 07/23/2024 |
| Reported: | 07/24/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.621892,-103.851520 | | |

Sample ID: SS07 0.5' (H244383-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/24/2024 | ND | 1.99 | 99.5 | 2.00 | 4.09 | |
| Toluene* | <0.050 | 0.050 | 07/24/2024 | ND | 1.96 | 97.9 | 2.00 | 4.00 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/24/2024 | ND | 1.98 | 99.2 | 2.00 | 4.19 | |
| Total Xylenes* | <0.150 | 0.150 | 07/24/2024 | ND | 5.87 | 97.9 | 6.00 | 3.87 | |
| Total BTEX | <0.300 | 0.300 | 07/24/2024 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 07/24/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/24/2024 | ND | 212 | 106 | 200 | 1.24 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/24/2024 | ND | 198 | 98.8 | 200 | 1.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/24/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 07/23/2024 | Sampling Date: | 07/23/2024 |
| Reported: | 07/24/2024 | Sampling Type: | Soil |
| Project Name: | BIG EDDY UNIT 34 HACKBERRY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558361 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.621892,-103.851520 | | |

Sample ID: SS08 0.5' (H244383-02)

| 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 | 07/24/2024 | ND | 1.99 | 99.5 | 2.00 | 4.09 | |
| Toluene* | <0.050 | 0.050 | 07/24/2024 | ND | 1.96 | 97.9 | 2.00 | 4.00 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/24/2024 | ND | 1.98 | 99.2 | 2.00 | 4.19 | |
| Total Xylenes* | <0.150 | 0.150 | 07/24/2024 | ND | 5.87 | 97.9 | 6.00 | 3.87 | |
| Total BTEX | <0.300 | 0.300 | 07/24/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 07/24/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/24/2024 | ND | 212 | 106 | 200 | 1.24 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/24/2024 | ND | 198 | 98.8 | 200 | 1.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/24/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



APPENDIX B

Lithologic Soil Sampling Logs

|  | | Sample Name: BH04 | | Date: 2/3/2025 | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|---------------------|----------------|-----------------------|--------------------------|------------------|-------------------------------------------------------------------------------------------------|
| | | Site Name: Big Eddy Hackberry 34 Battery | | | | | | |
| | | Incident Number: nAPP2408932392 | | | | | | |
| | | Job Number: 03C1558508 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.6218664, -103.8516721 | | | Logged By: Evan Roe | | Method: Hand auger | | | |
| | | | Hole Diameter: 2.5" | | Total Depth: 7' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | 196 | 95.5 | Y | BH04 | 0.5 | 0 | CCHE/SP | Caliche/Sand. Tan - brown, very fine to fine grained, poorly graded, dry, stained, strong odor. |
| D | 515 | 11.2 | Y | | 1 | 1 | | |
| D | 515 | 21.1 | Y | BH04 | 2 | 2 | SP | Sand. Tan - brown, very fine to fine grained, poorly graded, strong odor, staining. |
| D | 996.8 | 10.5 | N | BH04 | 3 | 3 | | |
| M | 1,713 | 18.5 | N | | 4 | 4 | | Moist, no odor. |
| M | 1,590 | 14.5 | N | | 5 | 5 | SP | Sand. Tan, very fine to fine grained, poorly graded, dry, no odor. |
| D | 182 | 18.1 | N | | 6 | 6 | | |
| D | 515 | 12.4 | N | BH04 | 7 | 7 | | |
| | | | | | | Total depth @ 7 feet bgs | | |

|  | | Sample Name: BH05 | | Date: 2/3/2025 | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|---------------------|----------------|-----------------------|------------------------|------------------|-------------------------------------------------------------------------------------------------|--|
| | | Site Name: Big Eddy Hackberry 34 Battery | | | | | | | |
| | | Incident Number: nAPP2408932392 | | | | | | | |
| | | Job Number: 03C1558508 | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | | |
| Coordinates: 32.6219606, -103.8516600 | | | Logged By: Evan Roe | | Method: Hand auger | | | | |
| | | | Hole Diameter: 2.5" | | Total Depth: 8' | | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included. | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | |
| D | <162 | 8.1 | N | BH05 | 0.5 | 0 | CCHE/SP | Caliche/Sand. Tan - brown, very fine to fine grained, poorly graded, dry, stained, strong odor. | |
| D | 196 | 2.0 | N | | 1 | 1 | | | |
| D | <162 | 6.1 | N | | 2 | 2 | SP | Sand. Tan - brown, very fine to fine grained, poorly graded, strong odor, staining. | |
| D | <162 | 5.0 | N | | 3 | 3 | | | |
| M | <162 | 1.2 | N | BH05 | 4 | 4 | | Moist, no odor. | |
| M | <162 | 2.9 | N | BH05 | 5 | 5 | SP | Sand. Tan, very fine to fine grained, poorly graded, dry, no odor. | |
| D | <162 | 4.1 | N | | 6 | 6 | | | |
| D | <162 | 3.2 | N | | 7 | 7 | | | |
| D | <162 | 4.6 | N | BH05 | 8 | 8 | | | |
| | | | | | | Total depth at 8' bgs. | | | |



APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc.
Big Eddy Hackberry 34 Battery
NAPP2408932392



Photograph 1

Date: February 3, 2025

Description: Delineation activities near BH05 facing East



Photograph 2

Date: February 3, 2025

Description: Delineation activities near BH04 facing South



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

February 06, 2025

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

RE: BIG EDDY HACKBERRY 34 BES

Enclosed are the results of analyses for samples received by the laboratory on 02/04/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 02/04/2025 | Sampling Date: | 02/03/2025 |
| Reported: | 02/06/2025 | Sampling Type: | Soil |
| Project Name: | BIG EDDY HACKBERRY 34 BES | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558508 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.62184-103.85159 | | |

Sample ID: BH 04 0.5' (H250656-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | S-04 | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.34 | 117 | 2.00 | 0.167 | |
| Toluene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.27 | 113 | 2.00 | 0.0601 | |
| Ethylbenzene* | 1.05 | 0.050 | 02/05/2025 | ND | 2.41 | 120 | 2.00 | 3.09 | GC-NC1 |
| Total Xylenes* | 1.54 | 0.150 | 02/05/2025 | ND | 7.25 | 121 | 6.00 | 4.17 | QM-07 |
| Total BTEX | 2.58 | 0.300 | 02/05/2025 | ND | | | | | GC-NC1 |

Surrogate: 4-Bromofluorobenzene (PID) 235 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 02/05/2025 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|--------------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 109 | 10.0 | 02/05/2025 | ND | 182 | 91.2 | 200 | 0.270 | |
| DRO >C10-C28* | 4390 | 10.0 | 02/05/2025 | ND | 188 | 94.2 | 200 | 0.312 | QM-07, QR-03 |
| EXT DRO >C28-C36 | 1020 | 10.0 | 02/05/2025 | ND | | | | | |

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 02/04/2025 | Sampling Date: | 02/03/2025 |
| Reported: | 02/06/2025 | Sampling Type: | Soil |
| Project Name: | BIG EDDY HACKBERRY 34 BES | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558508 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.62184-103.85159 | | |

Sample ID: BH 04 2' (H250656-02)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.34 | 117 | 2.00 | 0.167 | | |
| Toluene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.27 | 113 | 2.00 | 0.0601 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.41 | 120 | 2.00 | 3.09 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/05/2025 | ND | 7.25 | 121 | 6.00 | 4.17 | | |
| Total BTEX | <0.300 | 0.300 | 02/05/2025 | ND | | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 320 | 16.0 | 02/05/2025 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 02/05/2025 | ND | 182 | 91.2 | 200 | 0.270 | | |
| DRO >C10-C28* | 136 | 10.0 | 02/05/2025 | ND | 188 | 94.2 | 200 | 0.312 | | |
| EXT DRO >C28-C36 | 52.6 | 10.0 | 02/05/2025 | ND | | | | | | |

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: *Fred Hillard*
 Address: 601 N Marland Street, Suite 400
 City: Midland ~~575 937 3406~~ State: TX Zip: 79701
 Phone #: ~~575 937 3406~~ Fax #: ~~575 937 3406~~
 Project #: ~~03C155 8508~~ Project Owner: XTO Energy
 Project Name: *Big Beddy Trucking 34 Box*
 Project Location: *32.62184, -103.85159*
 Sampler Name: *Erin Row*
 P.O. #: _____ Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #: _____
 Fax #: _____

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | TPH 8015 | BTEX 8021 | Chloride 4500 | |
|----------------|--------------|--------------|-------------------|--------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|----------------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | | | | | | ICE / COOL |
| <i>4250656</i> | <i>R2104</i> | <i>.5</i> | <i>G</i> | <i>1</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>2/17/25</i> | <i>1530</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <i>R2104</i> | <i>21</i> | <i>G</i> | <i>1</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>2/17/25</i> | <i>1142</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

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Relinquished By: *Erin Row*
 Date: *2/17/25* Received By: *Erin Row*
 Time: *1400* Received By: *Erin Row*
 Date: _____ Received By: _____
 Time: _____

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp.: *-0.3* Sample Condition: Cool Intact
 Corrected Temp.: *0.0* Yes No
 CHECKED BY: *ER*
 Turnaround Time: *1400* Standard Rush
 Thermometer ID: *4448* Bacteria (only) Sample Condition: Cool Intact
 Correction Factor: *0.03* Yes No No No
 Corrected Temp.: _____

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



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

February 06, 2025

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

RE: BIG EDDY HACKBERRY 34 BES

Enclosed are the results of analyses for samples received by the laboratory on 02/04/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 02/04/2025 | Sampling Date: | 02/03/2025 |
| Reported: | 02/06/2025 | Sampling Type: | Soil |
| Project Name: | BIG EDDY HACKBERRY 34 BES | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558508 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.62184-103.85159 | | |

Sample ID: BH 04 3' (H250657-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.34 | 117 | 2.00 | 0.167 | |
| Toluene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.27 | 113 | 2.00 | 0.0601 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.41 | 120 | 2.00 | 3.09 | |
| Total Xylenes* | <0.150 | 0.150 | 02/05/2025 | ND | 7.25 | 121 | 6.00 | 4.17 | |
| Total BTEX | <0.300 | 0.300 | 02/05/2025 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 02/05/2025 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/05/2025 | ND | 182 | 91.2 | 200 | 0.270 | |
| DRO >C10-C28* | 42.2 | 10.0 | 02/05/2025 | ND | 188 | 94.2 | 200 | 0.312 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/05/2025 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 02/04/2025 | Sampling Date: | 02/03/2025 |
| Reported: | 02/06/2025 | Sampling Type: | Soil |
| Project Name: | BIG EDDY HACKBERRY 34 BES | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558508 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.62184-103.85159 | | |

Sample ID: BH 04 7' (H250657-02)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.34 | 117 | 2.00 | 0.167 | |
| Toluene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.27 | 113 | 2.00 | 0.0601 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.41 | 120 | 2.00 | 3.09 | |
| Total Xylenes* | <0.150 | 0.150 | 02/05/2025 | ND | 7.25 | 121 | 6.00 | 4.17 | |
| Total BTEX | <0.300 | 0.300 | 02/05/2025 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 400 | 16.0 | 02/05/2025 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/05/2025 | ND | 182 | 91.2 | 200 | 0.270 | |
| DRO >C10-C28* | 73.4 | 10.0 | 02/05/2025 | ND | 188 | 94.2 | 200 | 0.312 | |
| EXT DRO >C28-C36 | 18.9 | 10.0 | 02/05/2025 | ND | | | | | |

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: _____

Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701

Phone #: 575 937 3906 Fax #: _____
 Project #: 03C1558508 Project Owner: XTO Energy

Project Name: *Big Eddy Truck Bore 34 Bed*
 Project Location: *R32, 62184, -103, 85159*

Sampler Name: *Even Now*
 P.O. #: _____ Company: XTO Energy, Inc
 Attn: Colton Brown Address: 3104 E Greene St
 City: Carlsbad State: NM Zip: 88220
 Phone #: _____ Fax #: _____

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | TPH 8015 | BTEX 8021 | Chloride 4500 |
|----------------|-------------|--------------|-------------------|--------------|-------------|------------|-------------------------------------|-----|--------|---------|------------|-------------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | | | | | |
| <i>HB50657</i> | <i>B404</i> | <i>3'</i> | <i>(G)</i> | <i>6</i> | | | <input checked="" type="checkbox"/> | | | | | <i>2/25</i> | <i>1220</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <i>B404</i> | <i>7'</i> | <i>(G)</i> | <i>6</i> | | | <input checked="" type="checkbox"/> | | | | | <i>2/25</i> | <i>1522</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated rescuers or otherwise.

Relinquished By: *Even Now*
 Date: *2/25/25* Received By: *MICHAEL BLANK*
 Time: *1400* Date: _____ Time: _____

Delivered By: (Circle One) Observed Temp. °C: *0.3* Sample Condition: Cool Intact
 Corrected Temp. °C: *0.0* Yes No

Sampler - UPS - Bus - Other: _____ CHECKED BY: (Initials) *EB*
 Turnaround Time: *#NO* Standard Bacteria (only)
 Thermometer ID: *473* *Rush* Cool Intact Yes No
 Correction Factor: *0.03496* Observed Temp. °C: _____ Corrected Temp. °C: _____

REMARKS: _____ Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: *BBell@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com*

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



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

February 06, 2025

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

RE: BIG EDDY HACKBERRY 34 BES

Enclosed are the results of analyses for samples received by the laboratory on 02/04/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 02/04/2025 | Sampling Date: | 02/03/2025 |
| Reported: | 02/06/2025 | Sampling Type: | Soil |
| Project Name: | BIG EDDY HACKBERRY 34 BES | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558508 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.62184-103.85159 | | |

Sample ID: BH 05 .5 (H250658-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.34 | 117 | 2.00 | 0.167 | |
| Toluene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.27 | 113 | 2.00 | 0.0601 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.41 | 120 | 2.00 | 3.09 | |
| Total Xylenes* | <0.150 | 0.150 | 02/05/2025 | ND | 7.25 | 121 | 6.00 | 4.17 | |
| Total BTEX | <0.300 | 0.300 | 02/05/2025 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 02/05/2025 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/05/2025 | ND | 182 | 91.2 | 200 | 0.270 | |
| DRO >C10-C28* | 3790 | 10.0 | 02/05/2025 | ND | 188 | 94.2 | 200 | 0.312 | |
| EXT DRO >C28-C36 | 1190 | 10.0 | 02/05/2025 | ND | | | | | |

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 02/04/2025 | Sampling Date: | 02/03/2025 |
| Reported: | 02/06/2025 | Sampling Type: | Soil |
| Project Name: | BIG EDDY HACKBERRY 34 BES | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558508 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.62184-103.85159 | | |

Sample ID: BH 05 4 (H250658-02)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.34 | 117 | 2.00 | 0.167 | |
| Toluene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.27 | 113 | 2.00 | 0.0601 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.41 | 120 | 2.00 | 3.09 | |
| Total Xylenes* | <0.150 | 0.150 | 02/05/2025 | ND | 7.25 | 121 | 6.00 | 4.17 | |
| Total BTEX | <0.300 | 0.300 | 02/05/2025 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 02/05/2025 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/06/2025 | ND | 182 | 91.2 | 200 | 0.270 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/06/2025 | ND | 188 | 94.2 | 200 | 0.312 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/06/2025 | ND | | | | | |

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

February 06, 2025

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

RE: BIG EDDY HACKBERRY 34 BES

Enclosed are the results of analyses for samples received by the laboratory on 02/04/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 02/04/2025 | Sampling Date: | 02/03/2025 |
| Reported: | 02/06/2025 | Sampling Type: | Soil |
| Project Name: | BIG EDDY HACKBERRY 34 BES | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558508 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.62184-103.85159 | | |

Sample ID: BH 05 5' (H250659-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.34 | 117 | 2.00 | 0.167 | |
| Toluene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.27 | 113 | 2.00 | 0.0601 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.41 | 120 | 2.00 | 3.09 | |
| Total Xylenes* | <0.150 | 0.150 | 02/05/2025 | ND | 7.25 | 121 | 6.00 | 4.17 | |
| Total BTEX | <0.300 | 0.300 | 02/05/2025 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 02/05/2025 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/05/2025 | ND | 182 | 91.2 | 200 | 0.270 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/05/2025 | ND | 188 | 94.2 | 200 | 0.312 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/05/2025 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 02/04/2025 | Sampling Date: | 02/03/2025 |
| Reported: | 02/06/2025 | Sampling Type: | Soil |
| Project Name: | BIG EDDY HACKBERRY 34 BES | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558508 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.62184-103.85159 | | |

Sample ID: BH 05 8' (H250659-02)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.34 | 117 | 2.00 | 0.167 | |
| Toluene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.27 | 113 | 2.00 | 0.0601 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/05/2025 | ND | 2.41 | 120 | 2.00 | 3.09 | |
| Total Xylenes* | <0.150 | 0.150 | 02/05/2025 | ND | 7.25 | 121 | 6.00 | 4.17 | |
| Total BTEX | <0.300 | 0.300 | 02/05/2025 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 02/05/2025 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/05/2025 | ND | 182 | 91.2 | 200 | 0.270 | |
| DRO >C10-C28* | 19.4 | 10.0 | 02/05/2025 | ND | 188 | 94.2 | 200 | 0.312 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/05/2025 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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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

Action 453402

QUESTIONS

| | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 453402 |
| | Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

| | |
|----------------------|--------------------------------------------------|
| Prerequisites | |
| Incident ID (n#) | nAPP2408932392 |
| Incident Name | NAPP2408932392 BIG EDDY HACKBERRY 34 BATTERY @ 0 |
| Incident Type | Oil Release |
| Incident Status | Deferral Request Received |

| | |
|-------------------------------------------------------|-------------------------------|
| Location of Release Source | |
| <i>Please answer all the questions in this group.</i> | |
| Site Name | Big Eddy Hackberry 34 Battery |
| Date Release Discovered | 03/15/2024 |
| Surface Owner | Federal |

| | |
|------------------------------------------------------------------------------------------------------|-------------|
| Incident Details | |
| <i>Please answer all the questions in this group.</i> | |
| Incident Type | Oil Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Nature and Volume of Release | |
| <i>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.</i> | |
| Crude Oil Released (bbls) Details | Cause: Normal Operations Valve Crude Oil Released: 6 BBL Recovered: 3 BBL Lost: 3 BBL. |
| Produced Water Released (bbls) Details | Not answered. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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QUESTIONS, Page 2

Action 453402

QUESTIONS (continued)

| | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 453402 |
| | Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral) |

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 | <i>Unavailable.</i> |

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

| | |
|--------------------------------------------------------------------------------------------------------------------|----------------------|
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | <i>Not answered.</i> |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| I hereby agree and sign off to the above statement | Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 03/29/2024 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------|

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QUESTIONS, Page 3

Action 453402

QUESTIONS (continued)

| | |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 453402 |
| | Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| | |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.) |
| What method was used to determine the depth to ground water | OCD Imaging Records Lookup |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Between 1 and 5 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Between 1 and 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Between 1 and 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 | No |

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

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

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

| | |
|---------------------------------------------|------|
| Chloride (EPA 300.0 or SM4500 Cl B) | 1170 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 5519 |
| GRO+DRO (EPA SW-846 Method 8015M) | 4499 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 2.6 |
| 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 | 05/20/2024 |
| On what date will (or did) the final sampling or liner inspection occur | 07/23/2024 |
| On what date will (or was) the remediation complete(d) | 07/23/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed | 6950 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 898 |
| What is the estimated surface area (in square feet) that will be remediated | 3000 |
| What is the estimated volume (in cubic yards) that will be remediated | 460 |

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 453402

QUESTIONS (continued)

| | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 453402 |
| | Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral) |

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 | Not answered. |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | Not answered. |
| (In Situ) Soil Vapor Extraction | Not answered. |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. |
| Ground Water Abatement pursuant to 19.15.30 NMAC | Not answered. |
| OTHER (Non-listed remedial process) | Not answered. |

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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 05/20/2025 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

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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QUESTIONS, Page 5

Action 453402

QUESTIONS (continued)

| | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 453402 |
| | Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Deferral Requests Only | |
| <i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i> | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | Yes |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction | Yes |
| Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction | separators, surface and subsurface lines, electrical panels |
| What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted | 1210 |
| What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted | 134 |
| <i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i> | |
| Enter the facility ID (f#) on which this deferral should be granted | BIG EDDY HACKBERRY 34 BATT [fAPP2126341665] |
| Enter the well API (30-) on which this deferral should be granted | Not answered. |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater | True |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i> | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| I hereby agree and sign off to the above statement | Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 05/20/2025 |

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QUESTIONS, Page 6

Action 453402

QUESTIONS (continued)

| | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 453402 |
| | Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

| Sampling Event Information | |
|-------------------------------------------------------------------------------------------------|-------------------|
| Last sampling notification (C-141N) recorded | 426378 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 02/04/2025 |
| What was the (estimated) number of samples that were to be gathered | 10 |
| What was the sampling surface area in square feet | 2000 |

| Remediation Closure Request | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i> | |
| Requesting a remediation closure approval with this submission | 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 453402

CONDITIONS

| | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 453402 |
| | Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| rhamlet | XTO's deferral requests final remediation for (Incident Number NAPP2408932392) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 2 that is limited to the area between active production equipment, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue. | 5/21/2025 |